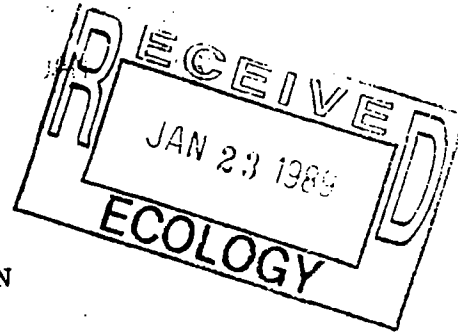


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UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF WASHINGTON

THE STATE OF WASHINGTON,
DEPARTMENT OF ECOLOGY
AND THE UNITED STATES OF
AMERICA ON BEHALF OF THE
U.S. ENVIRONMENTAL PROTECTION
AGENCY,

Plaintiff,

v.

COUNTY OF SPOKANE AND
KEY TRONIC CORPORATION,

Defendants.

C-89-033-RJM

MEMORANDUM REGARDING LODGING
OF CONSENT DECREE

On January 9, 1989, the United States and the State of Washington lodged with the Court a decree settling this case. This decree has been signed by defendants, and has been approved by the United States and the State of Washington.

Pursuant to 42 U.S.C. §9622(d)(2) and 28 C.F.R. §28.7, the decree cannot be entered by the Court until there has been an opportunity for public comment on it. Accordingly, once the decree has been lodged, the United States must publish in the Federal Register a notice of the lodging of the decree. The public is then given 30 days to comment on the decree. Once the 30 day comment period has expired, the governments can then move for entry of the

MEMORANDUM - 1

CONSDREE/R.1

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1 decree. If the governments move for entry of the decree, they must
2 provide to the Court a response to any public comments received.

3 Accordingly, the governments request that the Court defer
4 signing the decree in this case until after expiration of the public
5 comment period. After expiration of the comment period, the
6 governments will move for entry of the decree, if appropriate in
7 light of public comment, and will inform the Court of any public
8 comments and the governments' responses to those comments.

9 The parties anticipate moving for entry of the consent decree
10 prior to March 1, 1989. Expeditious action on this matter will be
11 necessary to avoid any unnecessary procedural delay that could be
12 associated with the effectiveness of the state Model Toxics Control
13 Act (Initiative 97), which replaces Ch. 70.105B RCW on that date.
14 The parties believe that the settlement embodied in this decree is
15 consistent with the terms of both Ch. 70.105B and the substantive
16 provisions of the Model Toxics Control Act.

17 DATED this 7th day of January, 1989.

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19 IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF WASHINGTON

20 UNITED STATES OF AMERICA; and
21 THE STATE OF WASHINGTON;

22 Plaintiffs,

23 v.

24 COUNTY OF SPOKANE; and
25 KEY TRONIC CORPORATION;

26 Defendants.

C-89-033-RJI

Civil Action No.

COMPLAINT

COMPLAINT - 1

1
2 The United States of America, on behalf of the
3 Administrator of the United States Environmental Protection
4 Agency ("EPA"), and the State of Washington, allege as follows:

5 STATEMENT OF THE CASE

6 1. This is a civil action instituted pursuant to
7 Section 106 of the Comprehensive Environmental Response,
8 Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9606, as
9 amended by the Superfund Amendments and Reauthorization Act of
10 1986 ("SARA"), Pub. L. No. 99-499, § 106, 100 Stat. 1613 (1986),
11 for equitable relief concerning an imminent and substantial
12 endangerment to human health and to the environment at a site
13 located near Spokane, Washington (the "Site"). This action also
14 is brought pursuant to Sections 104 and 107 of CERCLA, 42 U.S.C.
15 §§ 9604 and 9607, to recover response costs incurred and to be
16 incurred by the United States in connection with the Site.

17 In addition, this action is brought by the State of
18 Washington pursuant to Chapter 70.105B, Revised Code of
19 Washington ("RCW"), and ch. 90.48 RCW.

20 Pursuant to 28 U.S.C. § 2201, the United States also
21 seeks a declaratory judgment that the defendants shall be liable
22 for any response costs incurred by the United States in the
23 future with respect to the site, including the cost of monitoring
24 the Site.

25 JURISDICTION AND VENUE

1 2. This Court has jurisdiction over the subject matter
2 of this case pursuant to Section 113(b) of CERCLA, as amended, 42
3 U.S.C. § 9613(b), 28 U.S.C. §§ 1331, 1345 and 1345, ch. 70.105
4 RCW and ch. 90.48 RCW. Venue is proper in this district pursuant
5 to Section 113(b) of CERCLA, as amended, 42 U.S.C. § 9613(b), and
6 28 U.S.C. § 1391(b) because the claims herein arose in this
7 district.

8 COMPONENTS OF THE SITE

9 3. The Colbert Landfill is a Spokane County-owned
10 sanitary landfill that was operated from 1968 through 1986. The
11 Colbert area is in northeastern Washington, in Spokane County,
12 approximately 15 miles north-northeast of Spokane, Washington.

13 4. The landfill covers 40 acres and is located about 2.5
14 miles north of the Town of Colbert and half a mile east of U.S.
15 Highway 2 in the northwest quadrant of the intersection of Elk-
16 Chattaroy, Yale, and Big Meadows Roads. It is situated in the
17 southeast corner of Section 3, Township 27 North, Range 43 East,
18 W.M. The Landfill received both municipal and commercial wastes
19 up to 1986. It is now filled to capacity, and is no longer
20 receiving waste.

21 5. The remedial action site, the area of potential
22 impact surrounding and including the landfill, extends north of
23 the landfill about a half mile, west about a mile to the Little
24 Spokane river, east a similar distance, and south approximately
25 five miles to the Peone Creek. The total area is approximately
26 6,800 acres, which includes parts of Sections 2, 3, 10, 11, 14,

1 15, 16, 21, 22, 23, 26, 27, 28, 33, 34, and 35 of the same
2 township and range cited in paragraph 3 above.

3 DEFENDANTS

4 6. Defendant County of Spokane, Washington, has operated
5 the Colbert Landfill for the entire period that it was an active
6 landfill, during which time hazardous substances were disposed of
7 there.

8 7. Defendant Key Tronic is a manufacturer of keyboards
9 for typewriters and computers, and it is organized under the laws
10 of the State of Washington, with its principal place of business
11 in Spokane, Washington. Key Tronic, by contract, agreement or
12 otherwise arranged for disposal, or arranged with a transporter
13 for transport for disposal, of hazardous substances owned or
14 possessed by Key Tronic at the Site. Specifically, Key Tronic
15 arranged for the disposal or transport for disposal of
16 approximately 35,000 gallons of various chlorinated organic
17 solvents, which included 1,1,1-Trichloroethane ("TCA") and
18 methylene chloride ("MC"), at the Colbert landfill. The site
19 contains both of these substances.

20 RELEASES AND THREATENED RELEASES

21 8. Hazardous substances have been or may be released
22 from the Site.

23 9. The hazardous substances that have been, are being
24 or may be released from the Site include, but are not limited to,
25 1,1,1-Trichloroethane, 1,1-Dichloroethane, trichloroethylene,
26 tetrachloroethylene, and methylene chloride. Alluvial ground

1 water under most of the Site is contaminated, and the
2 contamination extends beyond the boundaries of the Site.

3 10. Some of the hazardous substances released at the
4 site have serious adverse health effects, including
5 carcinogenicity and mutagenicity.

6 11. The substances found at the Site may reach
7 receptors (e.g., people, animals and plants) by migrating through
8 the alluvial groundwater.

9 12. Consistent with 40 C.F.R. § 300.68(i), EPA issued a
10 Record of Decision ("ROD") for the Site on September 29, 1987.
11 The ROD describes the cost-effective remedial alternative that
12 effectively mitigates and minimizes threats to and provides
13 adequate protection of public health and welfare and the
14 environment to be implemented at the Site. The selected remedial
15 alternative includes, among other measures, the provision of an
16 alternative drinking water supply to each residence whose
17 domestic water supply is affected by the constituents of concern;
18 the installation of additional monitoring wells to define the
19 plume boundaries; the preliminary selection of types of treatment
20 system to be constructed; and the construction of extraction
21 wells, treatment systems and discharge structures. The remedial
22 alternative is designed to minimize the future health and
23 environmental effects of the hazardous substances found at the
24 Site.

25 EXPENDITURES BY THE SUPERFUND
26

1 13. The United States has expended and will continue to
2 expend funds to investigate, monitor, survey, test, and otherwise
3 gather information to identify (1) the existence and extent of a
4 release or threatened release of hazardous substances from the
5 Site; (2) the source and nature of the hazardous substances
6 involved; and (3) the extent of the danger that such release or
7 threatened release may present to the public health or welfare or
8 the environment. In addition, the United States has expended and
9 will continue to expend funds for planning, legal and other
10 activities necessary or appropriate to plan and direct response
11 actions, to recover the costs of response actions, and for
12 enforcement purposes. As of September 30, 1988, the United
13 States has expended \$1.0 million on such response actions, which
14 expenditures are not inconsistent with the National Contingency
15 Plan, 40 C.F.R. Part 300.

16 14. The State of Washington, Department of Ecology has
17 expended costs to identify, eliminate or minimize the threat or
18 potential threat posed by hazardous substances at the Colbert
19 Landfill Site. In addition, the State of Washington will
20 continue to incur costs associated with oversight and
21 implementation of remedial action at the Site. As of June 23,
22 1988, the State of Washington has incurred costs of \$386,541,
23 including interest.

24 FIRST CLAIM FOR RELIEF - UNITED STATES

25 Section 106(a) of the Comprehensive Environmental Response,
26 Compensation and Liability Act, 42 U.S.C. 9606(a)

1 15. The allegations of paragraphs 1 through 14 are
2 realleged and incorporated herein by reference.

3 16. Section 106(a) of the Comprehensive Environmental
4 Response, Compensation and Liability Act, 42 U.S.C. § 9606(a),
5 provides:

6 [W]hen the President determines that there may be
7 an imminent and substantial endangerment to the public
8 health or welfare or the environment because of an actual
9 or threatened release of a hazardous substance from a
10 facility, he may require the Attorney General of the
11 United States to secure such relief as may be necessary to
abate such endangerment. The President may also, after
notice to the affected State, take other action under this
Section including, but not limited to, issuing such orders
as may be necessary to protect public health and welfare
and the environment.

12 The President has delegated his authority under Section 106 to
13 the Administrator of EPA. Exec. Order No. 12,580, § 4(d)(1), 52
14 Fed. Reg. 2923 (1987).

15 17. "Hazardous substance" is defined in Section 101(14)
16 of CERCLA, 42 U.S.C. 9601(14), to include --

17 (A) any substances designated pursuant to section
18 311(b)(2)(A) of the Federal Water Pollution Control Act,
19 (B) any element, compound, mixture, solution, or
20 substance designated pursuant to section 102 of this
21 Act, (C) any hazardous waste having the characteristics
22 identified under or listed pursuant to section 3001 of
23 the Solid Waste Disposal Act (but not including any
24 waste the regulation of which under the solid waste
Disposal Act has been suspended by Act of Congress),
(D) any toxic pollutant listed under section 307(a) of
the Federal Water Pollution Control Act, (E) any
hazardous air pollutant listed under section 112 of the
Clean Air Act, and (F) any imminently hazardous chemical
substance or mixture with respect to which the
Administrator has taken action pursuant to section 7 of
the Toxic Substances Control Act.

25 18. "Release" is defined in Section 101(22) of CERCLA,
26 42 U.S.C. 9601(22), as --

COMPLAINT - 7

1 [A]ny spilling, leaking, pumping, pouring, emitting,
2 emptying, discharging, injecting, escaping, leaching,
3 dumping, or disposing into the environment.

4 19. "Facility" is defined in Section 101(9) of CERCLA,
5 42 U.S.C. § 9601(9), to include --

6 (A) any lagoon, . . . landfill, . . . or (B)

7 [a]ny site or area where a hazardous substance has been
8 deposited, stored, disposed of, or placed, or otherwise
9 come to be located.

10 20. The substances identified in paragraphs 7, 9, 10 and
11 11, above, are hazardous substances within the meaning of
12 Section 101(14) of CERCLA, 42 U.S.C. § 9601(14), 40 C.F.R. Table
13 302.4.

14 21. The substances identified in paragraphs 7, 9, 10 and
15 11, above have been and are being released into the soil,
16 groundwater and surface water at and around the Site and future
17 releases are threatened within the meaning of 42 U.S.C. §
18 9601(22).

19 22. The Site is a "facility" within the meaning of 42
20 U.S.C. § 9601(9).

21 23. The Administrator has determined that there may be
22 an imminent and substantial endangerment to the public health or
23 welfare or the environment because of actual or threatened
24 releases of hazardous substances from the Site within the meaning
25 of 42 U.S.C. § 9606.

26 24. The endangerment presented by the release or
threatened release of hazardous substances from the Site is
indivisible, as the hazardous substances found at the Site are

1 commingled within the Landfill and the groundwater beneath and
2 adjacent to the Site, so that all of the hazardous substances
3 contribute to the endangerment.

4 25. Defendants are within the classes of persons
5 described as liable parties in Sections 107(a)(1), 107(a)(2) and
6 107(a)(3) of CERCLA, 42 U.S.C. §§ 9607(a)(1), 9607(a)(2) and
7 9607(a)(3).

8 26. Defendants are jointly and severally liable for
9 remedying the releases and threatened releases and consequences
10 thereof.

11 SECOND CLAIM FOR RELIEF - UNITED STATES

12 Sections 104 and 107(a) of the
13 Comprehensive Environmental Response,
14 Compensation and Liability Act,
42 U.S.C. §§ 9604 and 9607(a)

14 27. The allegations of paragraphs 1 through 26 are
15 hereby incorporated by reference and made a part hereof.

16 28. Section 104 of CERCLA, 42 U.S.C. § 9604 and 9607(a)
17 (Supp. IV 1980), provides in pertinent part:

18 104(a)(1) - Whenever (A) any hazardous substance is
19 released or there is a substantial threat of such a
20 release into the environment, or (B) there is a release
21 or substantial threat of release into the environment of
22 any pollutant or contaminant which may present an
23 imminent and substantial danger to the public health or
24 welfare, the President is authorized to act, consistent
25 with the national contingency plan, to remove or arrange
26 for the removal of, and provide for remedial action
relating to such hazardous substance, pollutant, or
contaminant at any time (including its removal from any
contaminated natural resource), or take any other
response measure consistent with the national contin-
gency plan which the President deems necessary to
protect the public health or welfare or the environment,
. . . .

1 104(b) - Whenever the President is authorized to act
2 pursuant to subsection (a) of this section, or whenever
3 the President has reason to believe that a release has
4 occurred or is about to occur, or that illness, disease
5 or complaints thereof may be attributable to exposure to
6 a hazardous substance, pollutant, or contaminant and
7 that a release may have occurred or be occurring, he may
8 undertake such investigations, monitoring, surveys,
9 testing, and other information gathering as he may deem
10 necessary or appropriate to identify the existence and
11 extent of the release or threat thereof, the source and
12 nature of the hazardous substances, pollutants or
13 contaminants involved, and the extent of danger to the
14 public health or welfare or to the environment. In
15 addition, the President may undertake such planning,
16 legal, fiscal, economic, engineering, architectural, and
17 other studies or investigations as he may deem necessary
18 or appropriate to plan and direct response actions, to
19 recover the costs thereof, and to enforce the provisions
20 of this Act.

21 29. Section 107 (a) of CERCLA, 42 U.S.C. § 9607 (a),
22 provides in pertinent part:

23 107(a) - Notwithstanding any other provision or rule of
24 law, and subject only to the defenses set forth in sub-
25 section (b) of this section --

26 (1) the owner and operator of a vessel . . . or a
facility,

(2) any person who at the time of disposal of any
hazardous substance owned or operated any facility
at which such hazardous substances were disposed of,

(3) any person who by contract, agreement, or
otherwise arranged for disposal or treatment, or
arranged with a transporter for transport for
disposal or treatment, of hazardous substances owned
or possessed by such person, by any other party or
entity, at any facility owned or operated by another
party or entity and containing such hazardous
substances, and

(4) any person who accepts or accepted any hazardous
substances for transport to disposal or treatment
facilities or sites selected by such person, from
which there is a release, or threatened release which
causes the incurrence of response costs, of a
hazardous substance, shall be liable for --

1 (A) all costs of removal or remedial action
2 incurred by the United States Government or a
3 State . . . not inconsistent with the national
4 contingency plan;

5 30. The President has delegated his authority under
6 Section 104(a) and (b) of CERCLA, 42 U.S.C. § 9604(a) and (b), to
7 the Administrator of EPA. Exec. Order No. 12,580, § 1(g), 52
8 Fed. Reg. 2923 (1987).

9 31. The United States has incurred and will continue to
10 incur costs in connection with activities relating to the Site
11 under Section 104 of CERCLA, 42 U.S.C. § 9604, including costs of
12 investigation, clean-up, and removal and remedial action at the
13 facility. These response costs were incurred and will be
14 incurred in a manner not inconsistent with the National
15 Contingency Plan.

16 32. Defendants are jointly and severally liable under
17 CERCLA for all response costs incurred by the United States in
18 connection with the Site.

19 THIRD CLAIM FOR RELIEF - STATE OF WASHINGTON

20 33. The allegations of paragraphs 1 through 32 are
21 realleged and incorporated herein by reference.

22 34. Pursuant to Section 107(a)(4)(A) of CERCLA, 42
23 U.S.C. § 9607(a)(4)(A), as set forth in paragraph 29 above, the
24 defendants are jointly and severally liable for all response
25 costs incurred by the State of Washington in connection with the
26 Site.

FOURTH CLAIM FOR RELIEF - STATE OF WASHINGTON

1 35. The allegations of paragraphs 1 through 34 are
2 realleged and incorporated herein by reference.

3 36. RCW 70.105B.040 provides in pertinent part:

4 (1) Except as provided in subsection (3) of this
5 section, the following persons are liable with
6 respect to a facility:

7 (a) The owner or operator of the facility;

8 (b) Any person who owned or operated the facility
9 at the time of disposal or release of the hazardous
10 substance;

11 (c) Any person who owned or possessed a hazardous
12 substance and who by contract, agreement, or
13 otherwise arranged for disposal or treatment of the
14 hazardous substance at the facility, or arranged with
15 a transporter for transport for disposal or treatment
16 of the hazardous substance at the facility, or
17 otherwise generated hazardous waste disposed of or
18 treated at the facility;

19 . . .

20 (2) Each person who is liable under this section is
21 strictly liable, jointly and severally, for all
22 remedial action costs at or associated with the
23 facility and for all natural resource damages
24 resulting from the releases or threatened releases
25 of hazardous substances. The attorney general, at
26 the request of the department, may recover all costs
and damages from persons liable for them.

37. RCW 70.105B.030 provides in pertinent part:

(1) The department may exercise the following powers
in addition to any other powers granted by law:

(a) The department may conduct, provide for
conducting, or require potentially liable persons to
conduct remedial actions to remedy a release or
threatened release of a hazardous substance.

38. RCW 70.105B.020(4) defines "facility" as:

(4) "Facility" means (a) any building, structure,
installation, equipment, pipe or pipeline (including
any pipe into a sewer or publicly owned treatment
works), well, pit, pond, lagoon, impoundment, ditch,

1 landfill, storage container, motor vehicle, rolling
2 stock, vessel, or aircraft, or (b) any site or area
3 where a hazardous substance, other than a consumer
4 product in consumer use, has been deposited, stored,
5 disposed of, or placed, or otherwise come to be
6 located.

7 39. RCW 70.105B.020(6) defines hazardous substances to
8 include:

9 (a) Any dangerous or extremely hazardous waste as
10 defined in RCW 70.105.010(5) and (6), or any
11 dangerous or extremely hazardous waste designated by
12 rule pursuant to chapter 70.105 RCW;

13 (b) Any hazardous substance as defined in RCW
14 70.105.010(14) or any hazardous substance as defined
15 by rule pursuant to chapter 70.105 RCW;

16 (c) Any substance that, on October 16, 1987, is a
17 hazardous substance under section 101(14) of
18 [CERCLA].

19 40. RCW 70.105B.020(10) defines a release as:

20 . . . any intentional or unintentional entry of any
21 hazardous substance into the environment, including
22 but not limited to the abandonment or disposal of
23 containers of hazardous substances.

24 41. The substances identified in paragraphs 7, 9, 10 and
25 11 above, are hazardous substances within the meaning of RCW
26 70.105B.020(6).

42. The substances identified in paragraphs 7, 9, 10 and
11 above, have been and are being "released" into the
environment and future releases are threatened within the meaning
of RCW 70.105B.020(10).

43. The Site is a "facility" within the meaning of RCW
70.105B.020(4).

44. The State of Washington, Department of Ecology, has
determined that remedial action is necessary to identify,

1 eliminate or mitigate any threat or potential threat to human
2 health or the environment with respect to the Colbert Landfill
3 Site.

4 45. The defendants have received notice of their
5 potential liability and have been provided an opportunity to
6 propose a settlement agreement providing for remedial action as
7 provided by RCW 70.105B.070(1).

8 46. The defendants are liable persons within the terms
9 of RCW 70.105B.040(1).

10 47. The defendants are jointly and severally liable for
11 conducting remedial action for releases to the Colbert Landfill
12 Site.

13 FIFTH CLAIM FOR RELIEF - STATE OF WASHINGTON

14 48. The allegations of paragraphs 1 through 47 are
15 realleged and incorporated herein by reference.

16 49. The releases of hazardous substances into
17 groundwaters as set forth in paragraph 9 constitutes pollution as
18 defined by RCW 90.48.020.

19 50. RCW 90.48.080 prohibits the discharge of material
20 which causes or tends to cause pollution of waters of the state.

21 51. Underground waters are waters of the state as
22 defined by RCW 90.48.020.

23 52. The defendants have violated RCW 90.48.080 by
24 causing or tending to cause pollution of waters of the State of
25 Washington.

26 PRAYER FOR RELIEF

1 Wherefore, plaintiffs, the United States of America and
2 the State of Washington, pray:


3 A. That defendants be ordered to implement the selected
4 remedial alternative set forth in the September 29, 1987, Record
5 of Decision for the Site.

6 B. That the Court order all defendants, jointly and
7 severally, to reimburse the United States and the State of
8 Washington for all response costs incurred and to be incurred by
9 the United States and the State of Washington in connection with
10 the Site, that are not inconsistent with the NCP;

11 C. That Defendants be declared to be jointly and
12 severally liable for future investigatory, enforcement and other
13 response costs incurred by the United States and the State of
14 Washington with respect to the Site, and all other expenses the
15 United States may incur which are not inconsistent with the
16 National Contingency Plan, 40 C.F.R. Part 300;

17 D. That the Court award plaintiffs their costs of suit
18 herein and any other relief as the Court finds just and appro-
19 priate.

20 Respectfully submitted,

21 
22 _____
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25 Land and Natural Resources Division
26 United States Department of Justice

JOHN E. LAMP
United States Attorney
Eastern District of Washington

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DEPARTMENT OF ECOLOGY
SPOKANE, WASHINGTON

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF WASHINGTON

THE STATE OF WASHINGTON,
DEPARTMENT OF ECOLOGY
AND THE UNITED STATES OF
AMERICA ON BEHALF OF THE
U.S. ENVIRONMENTAL PROTECTION
AGENCY,

Plaintiffs,

v.

COUNTY OF SPOKANE AND
KEY TRONIC CORPORATION,

Defendants.

C-89-033-RJM
NO.

CONSENT DECREE

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1
2 I. AGREEMENT OF PARTIES

3 The parties agree that:

4 A. The State of Washington and the United States of
5 America are filing the complaint in this action simultaneously
6 with the Consent Decree. The Plaintiffs in the complaint seek
7 (1) an injunction requiring the Defendants to abate the release
8 or threat of release of hazardous substances from the Site
9 ("Site"), as hereafter defined, and to remedy hazardous
10 conditions presented to the public health, welfare and the
11 environment by the Site, and (2) reimbursement of response
12 costs incurred or to be incurred by the United States or the
13 state in connection with the Site as reduced by the the mixed
14 funding to be provided by the Government as provided in Section
15 XVII;

16 B. The relief sought against the Defendants would
17 require remedial actions as provided for in the Record of
18 Decision ("ROD") signed on September 29, 1987 by the Regional
19 Administration, Region 10, the United States Environmental
20 Protection Agency;

21 C. The Defendants deny any legal or equitable liability
22 under any statute, regulation, ordinance or common law for
23 damages caused by the generation, handling, storage, treatment,
24 transportation, or disposal of hazardous substances at the
25 Site;

26 CONSENT DECREE

-3-

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2 D. This Consent Decree, the entry hereof, and compliance
3 herewith shall not be admissible in any judicial or
4 administrative proceeding and shall not be an admission of any
5 fact dealt with herein or an admission of liability for any
6 purpose; the Consenting Parties retain the right to controvert
7 in any subsequent proceeding, other than in proceedings to
8 enforce this Consent Decree, the validity of or the
9 responsibility for any of the factual or legal determinations
10 made herein;

11 E. To accomplish the objectives set forth in this
12 Consent Decree the parties have agreed that it is in the public
13 interest and in the interest of the parties for this case to be
14 resolved without litigation, before the taking of any testimony
15 and without the admission of any issue of fact or law;

16 F. The obligations of Key Tronic Corporation under this
17 Consent Decree and with respect to remedial action at the
18 Colbert Landfill Site are limited to tender of the payments
19 specified under Paragraph A of Section VIII consistent with
20 Sections XIX, XXV, and XXX. The obligations of the United
21 States Air Force are dealt with pursuant to a separate consent
22 agreement with the Government Plaintiffs.

23 G. As provided in Section 113(f) of CERCLA, 42 U.S.C. §
24 9613(f) and RCW 70.105B.070(6), Key Tronic and the County shall
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2 not be liable for claims for contribution regarding matters
3 addressed in this Consent Decree;

4 H. By entering into this Consent Decree, the parties do
5 not intend to discharge nonsettling persons from any liability
6 they may have with respect to matters alleged in the complaint;
7 and

8 I. Plaintiffs and Defendants, by their representatives,
9 have agreed to this Consent Decree;

10 NOW, THEREFORE, it is ORDERED as follows:

11 II. JURISDICTION AND VENUE

12 A. This Court has subject matter jurisdiction over this
13 matter pursuant to 28 U.S.C. §§ 1331 and 1345, 42 U.S.C. §§
14 6901 et seq., 42 U.S.C. §§ 9601 et seq., ch. 70.105 RCW, ch.
15 90.48 RCW, and ch. 70.105B RCW and personal jurisdiction over
16 the signatories consenting hereto. Each signatory submits
17 itself to the jurisdiction of the Court for all matters
18 relating to this Consent Decree.

19 B. The parties stipulate that venue in this court is
20 proper pursuant to 42 U.S.C. § 9613(b) and request that a
21 single judge be assigned to decide all issues arising out of
22 this Consent Decree.

23 C. The parties further stipulate that, by agreeing to
24 the exercise of pendent jurisdiction over issues arising under
25 state law, no rights or claims which may be available to the
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2 County and Key Tronic under the Hazardous Waste Cleanup Act are
3 waived and such rights may be adjudicated by this Court or, if
4 this Court declines jurisdiction, the appropriate state court.

5 III. STATEMENT OF FACTS

6 The Colbert Landfill is a Spokane County-owned sanitary
7 landfill that was operated from 1968 through 1986. The Colbert
8 area is in northeastern Washington, in Spokane County,
9 approximately 15 miles north-northeast of Spokane, Washington.
10 The landfill covers 40 acres and is located about 2.5 miles
11 north of the Town of Colbert and a half mile east of U.S.
12 Highway 2 (Newport Highway) in the northwestern quadrant of the
13 intersection of Elk-Chattaroy, Yale, and Big Meadows Roads. It
14 is situated in the southeast corner of Section 3, Township 27
15 North, Range 43 East, W.M., see Appendix A. The landfill
16 received both municipal and commercial wastes up to 1986. It
17 is now filled to capacity, and is no longer receiving waste.

18 The remedial action site, the area of potential impact
19 surrounding and including the landfill, extends north of the
20 landfill about a half mile, west about a mile to the Little
21 Spokane River, east a similar distance, and south approximately
22 five miles to Peone (or Deadman) Creek. The total area is
23 approximately 6,800 acres which includes parts of Sections 2,
24 3, 10, 11, 14, 15, 16, 21, 22, 23, 26, 27, 28, 33, 34, and 35
25 of the same township and range. The site is entirely within

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2 the drainage basin of the Little Spokane River, mainly on a
3 plateau bounded by bluffs down to the river on the west and
4 knobby granite and basalt hills to the east.

5 Colbert Landfill had been operated as a sanitary landfill
6 by the Spokane County Utilities Department since it was opened
7 in September 1968 to its cessation of operations in October
8 1986. During the five years from 1975 to 1980, a local
9 electronics manufacturing company, Key Tronic Corporation, used
10 the Colbert landfill to dispose of spent organic solvents,
11 mainly methylene chloride (MC) and 1,1,1-trichloroethane (TCA).
12 Hazardous substances detected in ground water at the Site were
13 also disposed of by a variety of other persons, including
14 Alumax Irrigation Products, A&M Manufacturing and United Paint,
15 Inc. During the same period a nearby military facility,
16 Fairchild Air Force Base, also disposed of various solvent
17 wastes at the site. A variety of other chemicals (such as
18 pesticides and refinery tar residues) from other sources were
19 also disposed at the site but have not, to date, been detected
20 in the groundwater at the site.

21 In 1980 nearby residents complained to the Eastern
22 Regional Office of the Washington Department of Ecology
23 (Ecology) about these disposal practices. State and county
24 officials, under the lead of the Spokane County Utilities
25 Department, initiated an investigation into complaints of
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2 groundwater contamination in the area by sampling nearby
3 private wells of which some were found to be contaminated with
4 solvents. Subsequently, the County and Key Tronic instituted
5 and continued a well sampling plan to protect the interests of
6 local residents.

7 In the following years, a number of studies have been
8 directed toward the contamination problem at the Colbert
9 Landfill. The original investigation, which was initiated in
10 response to citizen complaints, was conducted by George Maddox
11 and Associates.

12 The United States Environmental Protection Agency ("EPA"),
13 pursuant to Section 105 of the Comprehensive Environmental
14 Response, Compensation, and Liability Act of 1980 ("CERCLA"),
15 42 U.S.C. § 9605, placed the Colbert Landfill Site in August,
16 1983 (the "Site" as specifically defined in Section IV of this
17 Consent Decree) on the National Priorities List, which is set
18 forth at 40 C.F.R. Part 300, Appendix by publication in the
19 Federal Register on August 8, 1983, 47 Fed. Reg. 58470-58484
20 (1983).

21 In response to a release or a substantial threat of a
22 release of a hazardous substance at or from the Site, the
23 Ecology and EPA in August, 1984, commenced a Remedial
24 Investigation and Feasibility Study ("RI/FS") pursuant to 40
25 C.F.R. 300.68 for the Site.

26 CONSENT DECREE

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2 The Remedial Investigation ("RI") Report was completed in
3 May, 1987, and the Feasibility Study ("FS") Report was also
4 completed in May, 1987. The FS Report contains a proposed plan
5 for remedial action at the Site.

6 Six volatile organic chemicals, all chlorinated aliphatic
7 hydrocarbons, were the main contaminants detected in the
8 groundwater at the Colbert Landfill Site during the Remedial
9 Investigation (Golder 1987). These contaminants, identified in
10 this Decree as "constituents of concern" are:

11 1,1,1-Trichloroethane (TCA); 1,1-Dichloroethylene (DCE);
12 1,1-Dichloroethane (DCA); Trichloroethylene (TCE);
13 Tetrachloroethylene (PCE); and Methylene Chloride (MC).
14 Constituents of concern were detected at levels requiring
15 remedial action in both upper and lower aquifers.

16 On January 8, 1988, EPA, pursuant to Section 122 of
17 CERCLA, 42 U.S.C. § 9622, notified the County and Key Tronic
18 that the EPA determined each party to be a potentially
19 responsible party ("PRP") regarding the proposed remedial
20 action at the Site. Subsequently, Ecology has determined each
21 party to be a potentially liable person (PLP) as defined by RCW
22 70.105B.020(9).

23 EPA's decision on the final remedial action plan is
24 embodied in a document called a Record of Decision ("ROD"),
25 issued September 29, 1987.

26 CONSENT DECREE

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2 Pursuant to Section 121(d)(1), EPA, the state, Spokane
3 County and Key Tronic ("the parties") have determined that the
4 remedial action plan embodied in this Consent Decree will
5 attain a degree of cleanup of hazardous substances, pollutants
6 and contaminants released into the environment and of control
7 of further release which at a minimum assures protection of
8 human health and the environment at the Site.

9 The parties have determined that the remedial action plan
10 embodied by this Consent Decree will provide standards of
11 control for such hazardous substances, pollutants, or
12 contaminants which at least attains legally applicable or
13 relevant and appropriate standards, requirements, criteria, or
14 limitations under Federal environmental law or state
15 environmental or facility siting law in accordance with Section
16 121(d)(2) of CERCLA, 42 U.S.C. § 9621(d)(2); and will attain a
17 degree of cleanup as provided in RCW 70.105B.060; and the
18 remedial action plan is in accordance with Section 121 of
19 CERCLA, 42 U.S.C. § 6921, and with the National Contingency
20 Plan ("NCP"), 40 C.F.R. Part 300.

21 The County agrees to implement the final remedial action
22 plan as set forth in Appendix B to this Consent Decree, and the
23 Government Plaintiffs have determined that the work required
24 under the Consent Decree will be done properly by the County,
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26 CONSENT DECREE

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2 and that the County is qualified to implement the remedial
3 action.

4 The parties recognize, and intend to further hereby, the
5 public interest in the expedition of the cleanup of the
6 Facility and avoiding prolonged and complicated litigation
7 between the parties.

8 NOW, THEREFORE, it is hereby Ordered, Adjudged and
9 Decreed:

10 IV. DEFINITIONS

11 The following definitions shall apply to this Consent
12 Decree, including the scope of work set forth in Appendix B:

13 A. ARAR means a federal or state standard, requirement,
14 criterion, or limitation that is legally applicable or relevant
15 and appropriate to cleanup of the Site as of the date of entry
16 of this Consent Decree within the meaning of 42 U.S.C. §
17 9621(d) and RCW 70.105B.060.

18 B. CERCLA means the Comprehensive Environmental Response
19 Compensation and Liability Act, 42 U.S.C. § 9601 et seq., as
20 amended, also known as "Superfund."

21 C. Colbert Landfill Site ("Site") means the Site located
22 in Spokane County, and described in the September 29, 1987 ROD.
23 See also, Appendix A. The Site includes (1) the approximately
24 40-acre landfill operated from 1968 to 1986; and (2) any
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2 portions of other properties that contain hazardous substances
3 as a result of landfill operations at the landfill.

4 D. Constituents of Concern means such hazardous
5 substances as are identified as major contaminants in the ROD;
6 specifically, 1,1,1-Trichloroethane (TCA); 1,1-Dichloroethylene
7 (DCE); 1,1-Dichloroethane (DCA); Trichloroethylene (TCE);
8 Tetrachloroethylene (PCE); and Methylene Chloride (MC).

9 E. County or Spokane County means the County of Spokane,
10 Washington.

11 F. Department of Ecology ("Ecology" or "state") means
12 the State of Washington, Department of Ecology.

13 G. EPA means the United States Environmental Protection
14 Agency.

15 H. Government Plaintiffs means the State of Washington
16 on behalf of the Department of Ecology and the United States of
17 America on behalf of EPA, acting alone or together.

18 I. Hazardous Substance means any hazardous substance as
19 defined by CERCLA and dangerous waste, extremely hazardous
20 waste and hazardous substances as defined by state law.

21 J. Hazardous Waste Cleanup Act means Washington Laws of
22 1987, Chapter 2, 3rd Ex. Session (S.B. 6085), as codified in
23 ch. 70.105B RCW and elsewhere.

24 K. Key Tronic means Key Tronic Corporation.
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2 L. National Contingency Plan ("NCP") means the plan
3 promulgated pursuant to CERCLA and codified at 40 CFR Part 300
4 et seq., as amended.

5 M. Parties means all parties who are signatories to the
6 Consent Decree.

7 N. Remedial Action means all activities and work within
8 the meaning of 42 U.S.C. § 9601(24) and specifically identified
9 in this Consent Decree, including Appendix B, and all
10 attachments thereto and plans and schedules thereunder, and all
11 amendments to any of the above made in accordance with this
12 Consent Decree. The Remedial Action includes, without
13 limitation the following items described more fully in Appendix
14 B: the pilot studies, further site characterization, and
15 initiation of cleanup activities to be conducted in Phase I;
16 the evaluation of Phase I results; the design of a final
17 remedial action program to meet the Performance Standards as
18 defined in Appendix B and implementation of such remedial
19 action program to be conducted in Phase II; any modification to
20 the Remedial Action as a result of the five-year review pro-
21 vided by Section XXV(B) or information developed in Phase I,
22 including data relating to the extent of contamination, site
23 hydrogeology, initial field pilot testing, technical
24 feasibility, or implementability of the remedial options
25 originally chosen, as provided on page I-3 of Appendix B; if

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2 identified to be necessary as provided in Appendix B, air
3 stripping tower emissions abatement; closure of Colbert
4 Landfill; domestic well monitoring; provision of alternative
5 water supply; implementation of institutional controls; and, if
6 the preferred remedy identified in the ROD is in whole or in
7 part no longer feasible or cost-effective, design and
8 implementation of any new alternative proposed by Spokane
9 County as provided in Appendix B.

10 O. RCRA means the Resource Conservation and Recovery
11 Act, 42 U.S.C. §§ 6901 et seq.

12 All terms not specifically defined herein shall have the
13 meaning as provided by CERCLA, 42 U.S.C. § 9601 et seq. and/or
14 ch. 70.105B RCW.

15 V. PARTIES BOUND

16 This Consent Decree shall apply to and be binding upon the
17 signatories, their successors and assigns. The undersigned
18 representative of each party certifies that he or she is fully
19 authorized to enter into the terms and conditions of this
20 Consent Decree and to execute and legally bind such party to
21 this document. The County shall provide a copy of this Consent
22 Decree to each contractor or subcontractor retained to perform
23 work contemplated by this Consent Decree and shall condition
24 any contract for such work on compliance with this Consent
25 Decree.

26 CONSENT DECREE

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2 VI. GENERAL PRINCIPLES

3 A. The Appendices to this Consent Decree and their
4 Attachments are a part of this Decree, and the plans and
5 schedules prepared as required in Appendix B and attachments
6 thereto shall, upon their approval by the Government
7 Plaintiffs, be incorporated in the Decree.

8 B. Except as provided in Section XXVII (Dispute
9 Resolution) and Section XXX (Covenant Not to Sue) nothing in
10 this Consent Decree shall be deemed to limit the response
11 authority of the Government Plaintiffs under Section 104 of
12 CERCLA, 42 U.S.C. § 9604, under Section 106 of CERCLA, 42
13 U.S.C. § 9606, or under the Hazardous Waste Cleanup Act.

14 VII. THE REMEDIAL ACTION

15 A. The County and Key Tronic shall finance and the
16 County shall perform the Remedial Action in accordance with
17 this Consent Decree. It is the intent of the parties that all
18 work to be performed be embodied in Appendix B. The Remedial
19 Action must meet the performance standards set forth in
20 Appendix B.

21 B. The Scope of Work to be performed by the County at
22 and about the Site is attached to this Consent Decree as
23 Appendix B and is herein incorporated by reference in its
24 entirety. The Scope of Work requires that the County submit
25 plans for approval by the Government Plaintiffs and implement

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2 such plans after receiving Governmental approval. All such
3 approved plans shall become a part of this Decree, and this
4 Decree shall be so amended upon and by the filing of approved
5 plans with the Court. The Scope of Work to be performed at the
6 Site includes further site characterization, installation of
7 pilot extraction wells and initial remediation as well as full
8 and final remediation measures.

9 As specified more completely in Appendix B, the Remedial
10 Action includes, inter alia,

11 1. Provision of an alternate drinking water supply
12 to each residence whose domestic water supply is affected by
13 Constituents of Concern or by the Remedial Action;

14 2. Additional monitor wells installed and sampled
15 to define plume(s) boundaries;

16 3. Preliminary selection of types of treatment
17 system to be constructed;

18 4. Treatability studies for the contaminated water
19 based on the selected treatment method, if necessary;

20 5. Preliminary design;

21 6. Final design (plans and specifications);

22 7. Construction of the extraction wells, treatment
23 system, and discharge structure(s);

24 8. Operation and maintenance manual, (draft and
25 final);

26 CONSENT DECREE

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9. Operation and maintenance of the system;
10. System Performance monitoring program;
11. Monitoring program for domestic supply wells;
12. Pump tests for extraction wells;
13. Development and implementation of institutional controls to the degree authorized by law.

C. The Government Plaintiffs shall have such rights of review and approval of the Remedial Action as are provided herein. The Remedial Action shall be designed, implemented and completed in accordance with the National Contingency Plan (NCP) in effect on the effective date of this Consent Decree and with the standards, specifications, and schedule of completion set forth in Appendix B and Attachments and the plans and schedules developed in accordance therewith. The level of cleanup or treatment required by the Remedial Action with respect to constituents of concern shall not be in excess of the Performance Standards set forth in Appendix B, unless those standards are modified under the five-year review authorized under CERCLA § 121(c), and discussed in Section XXV, B.

D. The Government Plaintiffs, Key Tronic and Spokane County agree that the Remedial Action, as set forth in Appendix B; or as modified in accordance with Section XXIV (Force Majeure) or the Court, is consistent with the NCP and the

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2 Hazardous Waste Cleanup Act and that the amounts paid by Key
3 Tronic and Spokane County to perform the work are necessary
4 costs of response.

5 VIII. OBLIGATIONS OF CONSENTING PARTIES

6 A. Obligation of Key Tronic

7 The obligation of Key Tronic shall be limited solely to
8 payment into the Trust Fund established under this Consent
9 Decree of only the following amounts according to the following
10 schedule:

<u>Date</u>	<u>Amount</u>
Within 15 days of entry of this Decree	650,000
September 30, 1989	650,000
September 30, 1990	950,000
September 30, 1991	950,000
September 30, 1992	1,000,000

15 Nothing herein shall preclude Key Tronic from paying prior
16 to the date contained in this schedule. The obligation of Key
17 Tronic under this paragraph shall not be affected in the event
18 of a default by Spokane County.

19 B. Obligation of Spokane County

20 Spokane County shall comply with the relevant terms and
21 conditions of this Consent Decree and implement the Remedial
22 Action as specified in Appendix B. It is the intent of the
23 parties, that, with the exceptions provided in Sections XIX and
24 XXX, and consistent with Section XXV, any changes or mod-

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2 ifications to the Scope of Work embodied in Appendix B are not
3 the responsibility of Key Tronic.

4 In the event of default by Key Tronic, Spokane County
5 shall not be responsible for the unpaid share of costs
6 attributable to Key Tronic pursuant to this Decree, or for any
7 penalties resulting from delays caused by such a default.
8 Nothing herein shall require the Government Plaintiffs to be
9 responsible for such costs in the event of default by Key
10 Tronic. The Government Plaintiffs reserve the right to take
11 action against any or all parties in the event of such a
12 default.

13 IX. INDEMNIFICATION

14 Spokane County agrees to indemnify and save and hold the
15 Government Plaintiffs, their agents and employees harmless from
16 any and all claims or causes of action for death or injuries to
17 persons or for loss or damage to property arising from or on
18 account of acts or omissions of the County, its officers,
19 employees, agents, or contractors in entering into and
20 implementing this Decree; provided, however, that the County
21 shall not indemnify the Government Plaintiffs nor save nor hold
22 its employees and agents harmless from any claims or causes of
23 action arising out of the negligent or intentional acts or
24 omissions of the Government Plaintiffs, or the employees and
25 agents of the Governments in implementing the activities
26 pursuant to this Decree. Nothing contained herein shall

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2 prevent the County from naming or joining EPA or Ecology for
3 their own acts of negligence or intentionally tortious conduct,
4 as provided by law. The Government Plaintiffs retain all
5 rights and defenses with respect to such claims.

6 X. DATA REPORTING/AVAILABILITY, SAMPLING

7 The Government Plaintiffs and the County shall make the
8 results of all sampling, laboratory reports, and/or test
9 results generated by or on behalf of such party with respect to
10 the implementation of this Consent Decree available to the
11 other. The County shall submit these results in progress
12 reports submitted in accordance with Section XI (Progress
13 Reports) herein. The Government Plaintiffs shall submit their
14 results in writing to the County within 30 days of receipt of a
15 written request.

16 At the request of the Government Plaintiffs, the County
17 shall allow split or duplicate samples to be taken by the
18 Government Plaintiffs and/or its authorized representatives of
19 any samples collected by Spokane County pursuant to the
20 implementation of this Consent Decree. Spokane County shall
21 use best efforts to notify the Government Plaintiffs at least
22 five (5) working days in advance of any sample collection
23 activity. The Government Plaintiffs shall allow split or
24 duplicate samples to be taken by the County or its authorized
25 representatives of any samples collected by the Governments

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2 pursuant to the implementation of this Consent Decree. The
3 Government Plaintiffs shall use best efforts to notify the
4 County at least five (5) working days prior to any sample
5 collection activity.

6 Both the County and the Government Plaintiffs shall
7 conduct all sampling and analysis in a manner consistent with
8 the Quality Assurance/Quality Control Plan established for the
9 Site.

10 XI. PROGRESS REPORTS

11 A. Spokane County shall provide or cause their
12 contractors or agents to provide written reports to the
13 Government Plaintiffs on a monthly basis during periods of
14 construction as provided by Appendix B and quarterly thereafter
15 until all the requirements of this Consent Decree have been
16 implemented, or on such other basis as may be mutually agreed
17 to by the County and the Government Plaintiffs without formal
18 amendment of this Consent Decree. These progress reports shall
19 describe the actions that have been taken toward achieving
20 compliance with this Consent Decree, including a general
21 description of Remedial Action activities commenced or com-
22 pleted during the reporting period, Remedial Action activities
23 projected to be commenced or completed during the next
24 reporting period, and any problems that have been encountered
25 or are anticipated by the County in commencing or completing

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2 the activities. The monthly progress reports are to be sub-
3 mitted to the Government Plaintiffs by the 10th of each month
4 for work done the preceding month and planned for the current
5 month. Quarterly progress reports are to be submitted to the
6 Government Plaintiffs by the 10th of each month following the
7 end of the preceding quarter.

8 B. If a progress report is incomplete or otherwise
9 deficient, the Government Plaintiffs shall notify the County
10 within twelve (12) work days of receipt of such progress report
11 by the Government Plaintiffs. In the event that a longer
12 review period is required, the Government Plaintiffs shall
13 notify the County within seven (7) days of receipt of such
14 document. The notice shall include a description of the
15 deficiencies. Notwithstanding this schedule, unless the County
16 invokes the procedures of Section XXVII (Dispute Resolution),
17 the County or its contractors or agents shall make the
18 necessary changes and resubmit the progress report or submit a
19 response to the notice of disapproval with the next progress
20 report to the Government Plaintiffs. Nothing in this paragraph
21 shall be construed to negate these Government Plaintiffs'
22 rights of review and approval.

23 C. If the Government Plaintiffs determine that a
24 resubmittal progress report is deficient or disagree with the
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2 County's response to a notice of disapproval, the County may
3 invoke the Dispute Resolution procedures of Section XXVII.

4 XII. OTHER REPORTS, PLANS AND OTHER ITEMS

5 A. Spokane County shall provide ten copies to EPA and
6 five copies to Ecology of any item described as "deliverables"
7 in the work plans and Scope of Work according to the schedule
8 set forth therein.

9 B. If the Government Plaintiffs disapprove any plans,
10 reports (other than monthly progress reports covered by Section
11 XI, above) or other items required to be submitted to the
12 Government Plaintiffs for approval pursuant to this Consent
13 Decree, then the County shall have thirty (30) days from the
14 receipt of such disapproval to correct any deficiencies and
15 resubmit the plan, report or item for Governmental approval.

16 C. Any disapproval by the Government Plaintiffs shall be
17 in writing and include an explanation of why the plan, report
18 or item is being disapproved. In the event that a longer
19 review period than specified in Appendix B is required, the
20 Government Plaintiffs shall notify the County of that fact
21 within 20 days of receipt of such document. Nothing in this
22 paragraph shall be construed to negate these Government
23 Plaintiffs' rights of review and approval.

24 D. The County must address each of the Government
25 Plaintiffs' comments and resubmit to the Government Plaintiffs

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2 the previously disapproved plan, report or item with the
3 required changes within the deadline set in Paragraph B, above.

4 E. If any plan, report, or item cannot be approved by
5 the Government Plaintiffs after one resubmission, the County
6 may invoke the Dispute Resolution procedures of Section XXVII.

7 XIII. RETENTION OF RECORDS

8 Spokane County shall preserve, during the pendency of this
9 Consent Decree and for ten (10) years from the date of termina-
10 tion of this Consent Decree, all records, reports, documents,
11 and underlying data in their possession, or in the possession
12 of their employees, agents, relevant to the implementation of
13 this Consent Decree, unless otherwise ordered by the Court.

14 The County shall also require all such records in the
15 possession of contractors to be provided to them and shall
16 retain copies of all such records which are nonduplicative.
17 Any party to this Consent Decree may have access to such
18 documents. Notwithstanding any other provision of this Consent
19 Decree, the Government Plaintiffs and the County retain any
20 rights they may otherwise have including but not limited to
21 privilege within the meaning of Rule 26(b) of the Federal Rules
22 of Civil Procedure or Washington Civil Rule 26(b), governing
23 the production of such records and documents.

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2 XIV. DESIGNATED PROJECT MANAGERS

3 A. Ecology's initial project manager is Mike Blum.
4 EPA's initial project manager is Neil Thompson. Spokane County
5 shall designate an initial project manager within thirty days
6 of entry of the Decree. Each project manager shall be
7 responsible for overseeing the implementation of this Consent
8 Decree. The Government Plaintiffs' project managers will be
9 the Government Plaintiffs' designated representatives at the
10 Site. To the maximum extent possible, communications between
11 the County and the Government Plaintiffs, and all documents,
12 including reports, approvals, and other correspondence
13 concerning the activities performed pursuant to the terms and
14 conditions of this Consent Decree, shall be directed through
15 the project managers.

16 Any party may change its respective project manager by
17 notifying the other party, in writing, at least ten (10)
18 calendar days prior to the change.

19 B. The Government Plaintiffs' project managers will
20 observe and monitor the progress of the Remedial Action being
21 performed pursuant to this Consent Decree. The project
22 managers shall have the authority vested by 40 CFR § 300 et
23 seq., and other applicable federal laws and regulations. The
24 project managers do not have the authority to modify in any way
25 the terms of this Consent Decree.

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2 XV. IMPLEMENTATION OF REMEDIAL ACTION

3 In the event that the Government Plaintiffs determine that
4 the County has failed to implement the Remedial Action, the
5 Government Plaintiffs may, after notice to the County and
6 consistent with the Dispute Resolution procedures of Section
7 XXVII, perform any or all portions of the Remedial Action that
8 remain incomplete. If the Government Plaintiffs perform all or
9 portions of the Remedial Action because of the County's failure
10 without good cause to comply with their obligations under this
11 Consent Decree, the County shall reimburse the Government
12 Plaintiffs for the costs of doing such work within thirty (30)
13 days of receipt of demand for payment of such costs, provided
14 that the County is not obligated under this section to
15 reimburse the Government Plaintiffs for costs incurred for work
16 inconsistent with or beyond the scope of the Remedial Action
17 unless it is work carried out under the five-year review
18 provided for by CERCLA § 121(c), which is referenced in Section
19 XXV. B. The Government Plaintiffs reserve the right to seek
20 reimbursement for any other necessary costs of remedial action.
21 The County does not waive any defenses to such actions. In any
22 proceeding for costs under this section, the County shall have
23 the burden of proving that costs claimed by the Government
24 Plaintiffs were for work inconsistent with or beyond the scope
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2 of the Remedial Action, work that is inconsistent with the NCP,
3 or work that was unnecessarily duplicative.

4 XVI. FINANCIAL ASSURANCES

5 The Government Plaintiffs have reviewed the financial
6 capabilities of Key Tronic and Spokane County and have
7 concluded that the availability of financial resources is not
8 an impediment to implementation of the Remedial Action.

9 XVII. PAYMENT OF COSTS

10 A. State Costs

11 Spokane County agrees to reimburse the appropriate account
12 of the Treasury of the State of Washington, as identified by
13 Ecology, for Ecology's reasonable and appropriate costs as
14 shown by an itemized statement of such costs compiled and
15 presented in conformance with state Office of Financial
16 Management standards and procedures associated with Ecology's
17 oversight of the Remedial Action that are consistent with the
18 NCP or ch. 70.105B RCW and not unnecessarily duplicative which
19 have been conducted during the implementation of this Consent
20 Decree. Within ninety (90) days of the end of each fiscal
21 quarter, Ecology will submit to the County an itemized state-
22 ment of Ecology's expenses for the previous quarter. Within
23 ninety (90) days of receipt of the itemized statement, the
24 County shall pay into the appropriate account of the Treasury

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2 of the State of Washington, as identified by Ecology, the
3 required sum.

4 B. Federal Costs

5 1. Past costs. Spokane County agrees to reimburse the
6 appropriate account as identified by EPA for EPA's reasonable
7 and appropriate costs, including direct, indirect and oversight
8 costs along with interest, expended prior to September 30,
9 1988. Said past costs shall be shown by an itemized statement
10 of such costs compiled and presented by EPA to Spokane County.
11 Spokane County shall pay such past costs within four years of
12 the entry of this Decree.

13 2. Future costs. Spokane County agrees to reimburse the
14 appropriate account as identified by EPA for EPA's reasonable
15 and appropriate costs, including direct, indirect and oversight
16 costs. EPA shall present the County with an itemized statement
17 of such costs on an annual basis consistent with its fiscal
18 year. Following receipt of the itemized statement, the County
19 shall pay, within ninety (90) days, into the appropriate
20 account as identified by EPA, the said sum.

21 C. Mixed Funding

22 1. State of Washington

23 Pursuant to RCW 70.105B.070(7) the Director has determined
24 that funding from the state toxics control account is
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1
2 appropriate to help defray the costs of conducting the Remedial
3 Action required under this Consent Decree. Such funding will
4 promote prompt settlement and implementation without burdensome
5 litigation and enhance cleanup operations, mitigate unfair
6 economic hardship and will achieve greater fairness with
7 respect to the payment of remedial action costs by providing
8 for the shares of potentially liable persons (PLPs) who have
9 not entered into a settlement agreement with Ecology.

10 As provided for by RCW 70.105B.070(7) Ecology may seek to
11 recover funds provided under this Decree from non-settling
12 potentially liable persons. Ecology further reserves the right
13 to seek reimbursement for such funds from any party which has
14 not fulfilled its obligations set forth in this Consent Decree.

15 To achieve the goals and purposes of RCW 70.105B.070(7),
16 the Director has determined that funds shall be made available
17 in the following specified amounts:

18 a. Past Costs. The parties agree that Key Tronic
19 and Spokane County and other PLPs are liable as of June 23,
20 1988, for \$386,541 including interest, for remedial action
21 costs incurred by Ecology to date. As part of its share of
22 mixed funding, Ecology agrees to waive collection of these
23 costs from the County and Key Tronic.

24 b. Future Costs. The parties agree that Key Tronic
25 and Spokane County and other PLPs are liable for Ecology's

26 CONSENT DECREE

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2 reasonable and appropriate oversight costs as provided above.
3 As part of its share of mixed funding, Ecology agrees to waive
4 collection of \$100,000 of such future oversight costs from Key
5 Tronic and Spokane County. Spokane County agrees to pay such
6 oversight costs in excess of said amount.

7 c. Ecology agrees to preauthorize claims against
8 the state toxics control account for up to \$75,000 to be used
9 in providing an alternate water supply as required by Appendix
10 B.

11 d. Ecology agrees to preauthorize claims against
12 the state toxics control account for up to \$100,000 to be used
13 for installation of an outfall pipe from the south extraction
14 system to the Little Spokane River as required by Appendix B.

15 e. Ecology agrees to preauthorize claims against
16 the state toxics control account for up to \$100,000 to be used
17 for construction of barrier wells in the south and west
18 treatment systems as required by Appendix B.

19 All claims against the state toxics control account shall
20 be contingent upon and subject to legislative appropriation.

21 2. United States. Claims Against the Fund.

22 a. In accordance with the preauthorization decision
23 document (Appendix D to the Consent Decree), Spokane County may
24 submit a claim for reimbursement to the Hazardous Substance
25 Superfund (the "Superfund") for up to 1.4 million dollars

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2 (\$1,400,000.00), of the costs incurred in completing the
3 remedial action. In no event shall the claims against the Fund
4 exceed the sum of \$1.4 million, unless the amount preauthorized
5 is modified pursuant to subparagraph b. The claims against the
6 Fund shall cover only Spokane County's costs of the remedial
7 action. The claims shall not include any of the United States'
8 oversight costs, or investigatory costs or past Response Costs
9 that were incurred prior to the lodging of this Decree, which
10 costs Spokane County is to pay to the Fund a portion thereof,
11 pursuant to this section. Reimbursement from the Fund of the
12 amount claimed by Spokane County shall be subject to the
13 applicable claims and audit procedures specified in Appendix D,
14 and shall be made in accordance with the procedures outlined in
15 Appendix D. Spokane County may not submit Contractor Claims
16 for reimbursement from the Fund. If the agency denies a claim
17 in whole or in part, it shall notify the claimant of the reason
18 for such denial. If the claimant is dissatisfied with EPA's
19 decision, or if EPA fails to act on a claim within 90 days of
20 its submission, the claimant may demand an administrative
21 hearing before an administrative law judge as provided in
22 Section 112 of CERCLA, 42 U.S.C. § 9612.

23 b. If it is subsequently determined that it is
24 necessary to modify the actions that EPA preauthorized, or if
25 it becomes apparent that the project's costs will exceed the

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2 approved costs as set out in Appendix D, Spokane County may
3 submit to EPA a revised application for preauthorization.
4 Further, Spokane County may submit a revised application for
5 preauthorization upon EPA's determination of the requirements
6 for final closure of the Site. EPA will consider requests for
7 preauthorization from Spokane County in a timely manner and
8 will revise the preauthorization to cover eleven and one-half
9 percent (11.5%) of reasonable and necessary costs to implement
10 the approved remedy.

11 c. Payment of any claim shall be subject to the County's
12 subrogating to the United States their rights as claimant to
13 the extent to which their response costs are compensated from
14 the Fund. Further, Spokane County and its contractors shall
15 assist in any cost recovery action which may be initiated by
16 the United States. Spokane County and its contractors shall
17 furnish the personnel, services, documents, and materials
18 needed to assist EPA in the collection of evidence to document
19 work performed and costs expended by the County or its
20 contractors at the Site in order to aid in cost recovery
21 efforts. Assistance shall also include providing all requested
22 assistance in the interpretation of evidence and costs, and
23 providing requested testimony. All of the County's contracts
24 for implementing the preauthorization decision document shall
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2 include a specific requirement that the contractors agree to
3 provide this cost recovery assistance.

4 D. Grant Funding

5 Upon entry of this Consent Decree, Spokane County shall be
6 eligible to apply for grant funds from Ecology as provided by
7 RCW 70.105B.220(4) and WAC 173-309-050.

8 XVIII. TRUST FUND

9 Key Tronic shall, subsequent to the effective date of this
10 Consent Decree, deposit into the trust established by the trust
11 agreement, which is attached hereto as Appendix C and is hereby
12 incorporated by reference, the amount of four million two
13 hundred thousand dollars and no cents (\$4,200,000.00). Key
14 Tronic shall pay funds into the trust fund under the schedule
15 contained in Paragraph A of Section VIII of this Consent
16 Decree. Said sum and any other funds derived from a settling
17 PLP or PRP shall be held in trust pursuant to the terms of
18 Appendix C. Ecology shall be designated as having the power of
19 appointment under the trust (hereinafter "Trust Fund"). The
20 Trust Fund shall be for the exclusive purposes of financing the
21 Remedial Action required and set forth under the terms of this
22 Consent Decree and implemented by the County.

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2 XIX. RESERVATION OF RIGHTS

3 A. Key Tronic

4 Notwithstanding compliance with its obligation under this
5 Consent Decree to make the payments required under Paragraph A
6 of Section VIII, and consistent with Sections XXV and XXX, Key
7 Tronic is not released from liability, if any, resulting from
8 its use of Colbert Landfill for costs of any removal or
9 remedial action outside the terms of this Consent Decree taken
10 by the Government Plaintiffs with respect to: (1) conditions
11 at the Site, previously unknown to the Government Plaintiffs,
12 which are discovered after the entry of this Consent Decree and
13 which indicate that the Remedial Action is not protective of
14 human health and the environment; (2) new information which is
15 received after entry of this Consent Decree and which reveals a
16 significant quantity of a hazardous substance originating from
17 the Site not identified in the ROD or this Consent Decree or a
18 condition not previously identified in the ROD or this Consent
19 Decree as being present at the Site, in an area of the Site
20 other than as described in the ROD or this Consent Decree, or
21 in quantities significantly greater than as described in the
22 ROD or this Consent Decree; or (3) contamination originating
23 other than from the Site. The Government Plaintiffs reserve
24 the right to take any such action outside the terms of this
25 Consent Decree pursuant to CERCLA or the Hazardous Waste

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2 Cleanup Act. In addition, the Government Plaintiffs reserve
3 the right to seek damages in exoneration/reimbursement from Key
4 Tronic for such costs incurred by the Government Plaintiffs.

5 B. Spokane County

6 Notwithstanding compliance with the terms of this Consent
7 Decree, including completion of the Remedial Action, the County
8 is not released from liability, if any, for costs of any
9 removal or remedial actions outside the terms of this Consent
10 Decree taken by the Government Plaintiffs with respect to: (1)
11 conditions of the Site, previously unknown to the Government
12 Plaintiffs, which are discovered after the entry of this
13 Consent Decree, when these previously unknown conditions
14 indicate that the Remedial Action is not protective of human
15 health and the environment; (2) new information which is
16 received after entry of this Consent Decree and which reveals a
17 significant quantity of a hazardous substance originating from
18 the Site not identified in the ROD or this Consent Decree or a
19 condition not previously identified in the ROD or this Consent
20 Decree as being present at the Site, in an area of the Site
21 other than as described in the ROD or this Consent Decree, or
22 in quantities significantly greater than as described in the
23 ROD or this Consent Decree; or (3) contamination originating
24 other than from the Site. The Government Plaintiffs reserve
25 the right to take any such action outside the terms of this

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2 Consent Decree pursuant to CERCLA or the Hazardous Waste
3 Cleanup Act. In the event that the County fails or refuses to
4 perform any tasks in accordance with the standards, speci-
5 fications, and schedules specified in the work plans or Scope
6 of Work, the Government Plaintiffs may undertake such tasks.
7 In addition, the Government Plaintiffs reserve the right to
8 seek damages in exoneration/reimbursement from the County for
9 such costs incurred by the Government Plaintiffs.

10 XX. OTHER CLAIMS

11 Except as otherwise provided in this Consent Decree,
12 nothing in this Consent Decree shall constitute or be construed
13 as a release from any claim, cause of action or demand in law
14 or equity against any person, firm, partnership, corporation,
15 or state or local governmental entity not a signatory to this
16 Consent Decree for any liability it may have arising out of or
17 relating in any way to the generation, storage, treatment,
18 handling, transportation, release, or disposal of any hazardous
19 substances, hazardous wastes, pollutants, or contaminants found
20 at, taken to, or taken from the Site. Except as provided in
21 paragraph C and D of Section XVII, regarding mixed or grant
22 funding to be provided by the Government Plaintiffs, this
23 Consent Decree does not preauthorize or constitute any decision
24 or preauthorization of funds under 42 U.S.C. § 9611(a)(2) or
25 the Hazardous Waste Cleanup Act. Key Tronic and Spokane County

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2 waive any claims they may otherwise have against the Superfund
3 or state or local toxics control accounts, with respect to
4 liability for which they have been relieved under this Consent
5 Decree.

6 XXI. COMPLIANCE WITH LAWS

7 A. Subject to the limitations of paragraph B of this
8 section, all actions carried out by the County pursuant to the
9 Consent Decree shall be done in accordance with all applicable
10 federal, state statutes, rules, regulations and ordinances.

11 B. As provided in Section 121(e) of CERCLA, 42 U.S.C. §
12 9621(e), no federal, state, or local permit shall be required
13 for the portions of the Remedial Action to be conducted
14 entirely on the Site, although the County must comply with the
15 substantive requirements of all applicable federal laws. As
16 provided in Section 25 of the Hazardous Waste Cleanup Act, RCW
17 70.105B.250, the Remedial Action is exempt from the procedural
18 and substantive requirements of state and local laws that would
19 otherwise apply to the Remedial Action.

20 C. To the extent that, notwithstanding paragraph B of
21 this Section, the County must obtain any permits in connection
22 with the Remedial Action, the Government Plaintiffs may assist
23 the County in obtaining any such permits after diligent efforts
24 by the County. Any denial of assistance shall be subject to
25 dispute resolution as provided in Section XXVII.

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2 XXII. SITE ACCESS

3 The Government Plaintiffs or any authorized representative
4 of the Government Plaintiffs shall have the authority to enter
5 and freely move about all property at the Site at all
6 reasonable times for the purposes of, inter alia: inspecting
7 records, operation logs, and contracts related to the Site;
8 reviewing the progress in carrying out the terms of this
9 Consent Decree; conducting such tests or collecting samples as
10 the Government Plaintiffs or the project managers may deem
11 necessary; using a camera, sound recording, or other
12 documentary type equipment to record work done pursuant to this
13 Consent Decree; and verifying the data submitted to the
14 Government Plaintiffs by the County. The Government Plaintiffs
15 shall split any samples taken during an inspection unless the
16 County fails to make available a representative for the purpose
17 of splitting samples. The County shall allow such persons to
18 inspect and copy all records, files, photographs, documents,
19 and other writings including all sampling and monitoring data,
20 in any way pertaining to work undertaken pursuant to this Con-
21 sent Decree that is not otherwise privileged within the meaning
22 of Rule 26(b) of the Federal Rules of Civil Procedure or
23 Washington Civil Rule 26(b). All parties with access to the
24 Site pursuant to this section shall comply with approved health
25 and safety plans. To the extent practicable, the Government

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2 Plaintiffs shall endeavor to notify the County prior to
3 entering and moving about the Site.

4 If, after diligent efforts, the County is unable to
5 achieve access, the Government Plaintiffs may assist in
6 securing access pursuant to existing law, including RCW
7 70.105B.030 and 70.105B.110. Any denial of assistance shall be
8 subject to dispute resolution as provided by Section XXVII.

9 XXIII. ENDANGERMENT

10 In the event the Government Plaintiffs determine or concur
11 in a determination by another local, state, or federal agency
12 that activities implementing or in noncompliance with this
13 Consent Decree, or any other circumstances or activities, are
14 creating or have the potential to create an imminent and
15 substantial endangerment to the public health or welfare or the
16 environment, the Government Plaintiffs may order the County to
17 stop further implementation of this Consent Decree for such
18 period of time as needed to abate the danger. During any
19 stoppage of work under this section, the County's obligations
20 with respect to the work ordered to be stopped shall be sus-
21 pended and the time periods for performance of that work, as
22 well as the time period for any other work dependent upon the
23 work which stopped, shall be extended, pursuant to Section XXIV
24 (Force Majeure) of this Consent Decree, for such period of time
25 as the Government Plaintiffs determine is reasonable under the

26 CONSENT DECREE

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2 circumstances, in no event less than the time of the stoppage.
3 If the Government Plaintiffs unreasonably stopped work and
4 thereby increased costs to the County to perform the Remedial
5 Action, the County reserves its rights to seek reimbursement
6 from the Government Plaintiffs. The County shall bear the
7 burden of proof regarding the reasonableness of stoppages by
8 the Government Plaintiffs.

9 B. In the event the County determines that activities
10 undertaken in furtherance of this Consent Decree or any other
11 circumstances or activities are creating or have the potential
12 to create an imminent and substantial endangerment to the
13 people on the Site or in the surrounding area or to the
14 environment, the County may stop implementation of this Consent
15 Decree for such periods of time necessary for the Government
16 Plaintiffs to evaluate the situation and determine whether the
17 County should proceed with implementation of the Consent Decree
18 or whether the work stoppage should be continued until the
19 danger is abated. The County shall notify the Government
20 Plaintiffs' project managers as soon as is possible, but no
21 later than twenty-four (24) hours if the stoppage occurs on a
22 weekday, and forty-eight (48) hours if the stoppage occurs on a
23 weekend or holiday, after such stoppage of work, and provide
24 the Government Plaintiffs with documentation of its analysis in
25 reaching this determination. If the Government Plaintiffs

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2 disagree with the County's determination, it may order the
3 County to resume implementation of this Consent Decree. During
4 any stoppage of work under this paragraph, the County's obli-
5 gations shall be suspended and the time periods for performance
6 of that work, as well as the time period for any other work
7 dependent upon the work which was stopped, shall be extended,
8 pursuant to Section XXIV (Force Majeure) of this Consent
9 Decree, for such period of time as the Government Plaintiffs
10 determine is reasonable under the circumstances in no event
11 less than the time of the stoppage.

12 C. Any disagreements pursuant to this clause shall be
13 resolved through the dispute resolution procedures.

14 XXIV. FORCE MAJEURE

15 A. "Force Majeure" for purposes of this Consent Decree
16 is defined as any event arising from causes beyond the control
17 of Spokane County which delays or prevents the performance of
18 any obligation under this Consent Decree. An extension of
19 schedules shall be granted only when a request for an extension
20 is submitted within 30 days from knowledge of an event and good
21 cause exists for granting the extension. All extensions shall
22 be requested in writing. The request shall specify the
23 reason(s) the extension is needed. An extension shall only be
24 granted for such period of time as the Government Plaintiffs
25 determine is reasonable under the circumstances. The

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CONSENT DECREE

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2 Government Plaintiffs shall act upon all written requests in a
3 timely fashion. It shall not be necessary to formally amend
4 this decree pursuant to Section XXV when a schedule extension
5 is granted; however, following any schedule extension, the
6 County shall prepare a revised schedule which they shall
7 provide to the Government Plaintiffs and file with the Court.

8 B. The burden shall be on the County to demonstrate that
9 the request for the extension has been submitted in a timely
10 fashion and that good cause exists for granting the extension
11 and due diligence has been exercised. Good cause may include,
12 but not be limited to, the following:

13 (1) Circumstances beyond the reasonable control and
14 despite the due diligence of the County (including delays
15 caused by unrelated third parties);

16 (2) Delays not caused by Spokane County in the issuance
17 of a necessary permit which was timely applied for;

18 (3) Other circumstances deemed exceptional or
19 extraordinary;

20 (4) Changes in work plans; and

21 (5) Unanticipated access, drilling, or logistics
22 problems;

23 Good cause shall include the following:

24 (1) Government Plaintiffs' review periods in excess of
25 prescribed times.

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2 (2) Acts of God, fire, flood, blizzard, extreme
3 temperatures that interfere with work performance, or other
4 unavoidable casualty;

5 (3) Judicial Stay; and

6 (4) Work Stoppage due to endangerment as provided in
7 Section XXIII.

8 Neither increased costs of performance of the terms of
9 this Decree nor changed economic circumstances may be
10 considered "force majeure" or circumstances beyond the
11 reasonable control of the County.

12 XXV. AMENDMENT OF CONSENT DECREE

13 A. This Consent Decree may only be amended by written
14 stipulation between the Government Plaintiffs and the affected
15 party (parties). All affected parties shall be given prompt
16 written notice of such amendments. Such amendment shall become
17 effective upon entry by the Court. Agreement to amend shall
18 not be unreasonably withheld by any party to the Consent
19 Decree.

20 The County shall submit any request for modifications to
21 the remedial program or project schedule to the Government
22 Plaintiffs for approval. The Government Plaintiffs shall
23 indicate their approval or disapproval of these in a timely
24 manner after the request for modification is received. Reasons
25 for the disapproval shall be stated in writing. If the

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2 Government Plaintiffs do not agree to any proposed
3 modification, the disagreement may be addressed through the
4 dispute resolution procedures described in Section XXVII of
5 this Consent Decree.

6 In the event of any default, it is the intent of the
7 parties that the provisions of this Consent Decree may be
8 amended in order to prevent prejudice against the
9 non-defaulting party and ensure timely implementation of the
10 Remedial Action. Any decision of the Government Plaintiffs
11 relating to financing the Remedial Action, in the event of a
12 default, shall not be subject to dispute resolution.

13 B. In accordance with CERCLA, the design and operation
14 of the Remedial Action will be reviewed and, if appropriate,
15 adjusted at intervals not to exceed five years.

16 C. No guidance, suggestions, or comments by the
17 Government Plaintiffs will be construed as relieving the County
18 of its obligation to obtain formal approval as may be required
19 by this Consent Decree. No verbal communication by the
20 Government Plaintiffs shall relieve the County of the
21 obligations specified herein.

22 The Government Plaintiffs shall notify the County in
23 writing of any Government Plaintiff proposal for modifications
24 of the remedial program or project schedule and the basis for
25 such proposal. The County shall thereafter comply with such

26 CONSENT DECREE

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2 modifications, or if it does not agree with those
3 modifications, the disagreement shall be addressed through the
4 dispute resolution procedures described in Section XXVII of
5 this Consent Decree.

6 XXVI. STIPULATED PENALTIES

7 A. Spokane County shall pay stipulated penalties of \$100
8 per day for the submission of a deficient resubmittal progress
9 report as called for in Section XI.

10 B. Except for the stipulated penalties specified in
11 paragraph A, the County or Key Tronic shall pay the following
12 stipulated penalties for each failure to comply with their
13 respective requirements of this Decree, including but not
14 limited to all financial commitments, implementation schedules
15 and performance and submission dates:

Period of Failure to Comply	Penalty Per Violation Per Day
1st through 14th day	\$500
15th through 44th day	\$750
45th day and beyond	\$1,000

19 Whether or not a violation has occurred shall be a matter
20 for resolution under Section XXVII (Dispute Resolution).

21 C. Penalties shall accrue from the date performance is
22 due or a violation occurs and continue until the final day of
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2 correction of the noncompliance. Nothing herein shall prevent
3 the simultaneous accrual of separate stipulated penalties for
4 separate violations of this Consent Decree. One-half of penal-
5 ties due under this Section shall be payable to U.S. EPA and
6 one-half shall be payable to Ecology, into accounts designated
7 by the respective Government Plaintiffs.

8 D. Penalties shall accrue but need not be paid during
9 the dispute resolution period. If the District Court becomes
10 involved in the resolution of the dispute the period of dispute
11 shall end upon the rendering of a decision by the District
12 Court regardless of whether any party appeals such decision.
13 If the County or Key Tronic does not prevail upon resolution,
14 the Government Plaintiffs have the right to collect all
15 penalties which accrue prior to and during the period of
16 dispute. If the County or Key Tronic prevails upon resolution,
17 no penalties shall be payable.

18 E. If the County or Key Tronic fails to pay stipulated
19 penalties, the Government Plaintiffs may institute proceedings
20 to collect the penalties. In the event that stipulated
21 penalties, as approved in this Section, are not paid,
22 U.S. EPA may elect to assess civil penalties and/or bring an
23 action in U.S. District Court pursuant to Section 109 of
24 CERCLA to enforce the provisions of this Consent Decree
25 provided that County's or Key Tronic's total penalty

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2 exposure to EPA for violations shall be limited to \$25,000 per
3 day per violation of this Consent Decree. Payment of
4 stipulated penalties shall not preclude U.S. EPA or the state
5 from electing to pursue any other remedy or sanction to enforce
6 this Consent Decree, and nothing shall preclude U.S. EPA or the
7 state from seeking statutory penalties against the County or
8 Key Tronic for violations of statutory or regulatory
9 requirements.

10 XXVII. DISPUTE RESOLUTION

11 A. Except as otherwise specifically provided for in this
12 Consent Decree, these dispute resolution procedures shall apply
13 to all disputes between the County and the Government
14 Plaintiffs with respect to the interpretation, application,
15 denial or decisions of the Government Plaintiffs implementing
16 this Consent Decree. Except as otherwise specifically provided
17 for in this Consent Decree, any dispute which arises with
18 respect to the interpretation, application, denial or a
19 decision of the Government Plaintiffs implementing this Consent
20 Decree shall in the first instance be the subject of informal
21 negotiations between the County and the Government Plaintiffs.
22 The period for informal negotiations shall be thirty (30) days
23 from the date of receipt of a written statement of the issue in
24 dispute, unless otherwise extended or shortened by mutual
25 written agreement of the parties to the dispute. If the

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2 dispute is not resolved during the informal negotiation period,
3 either party may petition the Court with notice to all parties,
4 setting forth the matter in dispute, within fourteen (14)
5 calendar days after the end of the informal negotiation period.
6 In an emergency, any party to the dispute may file a petition
7 prior to the expiration of the informal negotiations period.
8 Unless otherwise ordered by the Court, the filing of a petition
9 shall not operate to stay the Work which is the subject of
10 dispute, nor extend or postpone the County's obligations under
11 this Consent Decree with respect to the disputed issue.

12 The standard of judicial review shall be the arbitrary and
13 capricious standard for all disputes involving the selection of
14 the remedy. Otherwise, the standard of review for dispute
15 resolution shall be determined by the Court, in accordance with
16 CERCLA. With respect to disputes involving the selection of
17 the remedy, the County shall bear the burden of proof for
18 demonstrating that an action of the Government Plaintiffs is
19 arbitrary and capricious. In all other disputes, the moving
20 party shall bear the burden of proof on all disputes, whatever
21 the applicable standard.

22 B. The Court's determination shall bind the County
23 and the Government Plaintiffs. Each party shall bear its own
24 attorney's fees, expert witness fees or legal costs resulting
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2 from utilization of the judicial review provisions of these
3 dispute resolution procedures.

4 C. In no event will the performance standards
5 contained in the Scope of Work (Appendix B) be subject to
6 dispute resolution.

7 D. Delay caused by formal dispute resolution
8 requested by the County in which the Government Plaintiffs
9 prevail shall not constitute an excuse from payment of
10 stipulated penalties, unless otherwise ordered by the Court.

11 E. Key Tronic may dispute the timeliness of
12 payments made pursuant to Section VIII in the event that
13 Stipulated Penalties are assessed pursuant to Section XXVI.

14 F. This section shall not apply to disputes
15 regarding claims made by the County pursuant to Section
16 XVII(C)(2) (Claims Against the Fund), and Appendix D, which
17 shall be resolved as required by Section 112 of CERCLA, 42
18 U.S.C. § 9612.

19 XXVII. TRANSFER OF INTEREST IN PROPERTY

20 No conveyance of title, easement, or other interest in any
21 portion of the Site owned by the County shall be consummated
22 without provision for continued operation and maintenance of
23 any containment system, treatment system, and monitoring system
24 installed or implementation of that pursuant to this Consent
25 Decree.

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2 Prior to transfer of any legal or equitable interest in
3 all or any portion of property owned by the County, the County
4 shall serve a copy of this Consent Decree upon any prospective
5 purchaser, lessee, transferee, assignee, or other successor in
6 interest of the property and, at least thirty (30) days prior
7 to any transfer, shall notify the Government of said
8 contemplated transfer.

9 Within thirty (30) days after entry of the Consent Decree
10 the County shall cause to be recorded in the appropriate
11 registry of deeds a notice and a copy of this Consent Decree
12 with the deeds for its property at the Site, and shall verify
13 to the Government Plaintiffs that such recording has been
14 completed.

15 XXIX. COMMUNITY RELATIONS

16 The Government Plaintiffs shall be the lead for community
17 relations, and the County shall be responsible for helping to
18 coordinate and implement community relations for the Site. The
19 Government Plaintiffs shall consult with the County in the
20 preparation and finalization of fact sheets, press releases,
21 and public notices.

22 The Government Plaintiffs shall accommodate where possible
23 the County's concerns prior to release of such information.
24 The County shall assist in:

- 25 1. Distribution of the fact sheets referred to above;

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2. Coordination of public meetings;

3. In supplying appropriate documents and information for the information repositories.

In the event of the disagreement over the contents of any document prepared for purposes of community relations, or any other decision related to community relations, or any other decision related to community relations, the Government Plaintiffs determination shall be final.

Nothing provided in this section shall prevent the County from developing or conducting its own Community Relations Program, consistent with this Decree.

XXX. COVENANTS NOT TO SUE

A. State of Washington. Except as specifically provided in Paragraph A.2 of this Section, the State of Washington covenants not to sue Key Tronic and the County for Covered Matters. Covered Matters shall include any and all civil liability to the state for causes of action arising under the Hazardous Waste Cleanup Act, ch. 70.105 RCW, or ch. 90.48 regarding contamination from hazardous substances originating from the Site, identified herein as constituents of concern. This Consent Decree is entered into to provide for Remedial Action at the Colbert Landfill site. The Director finds that issuance of a covenant not to sue is appropriate and within the public interest as defined by RCW 70.105B.080(2). The Remedial

1
2 Action to be implemented will achieve cleanup levels that
3 prevent actual or potential harm to human health and the
4 environment as required by RCW 70.105B.060.

5 1. Except as specifically provided otherwise in
6 Paragraph A.2, this covenant not to sue shall take effect as to
7 Key Tronic upon tender of all payments required under Paragraph
8 A of Section VIII and as to the County upon certification by
9 the State of Washington of the completion of the Remedial
10 Action. Upon receipt of all payments from Key Tronic as
11 provided in Paragraph A of Section VIII, the Government
12 Plaintiffs shall issue a Certification of Completion to Key
13 Tronic. Key Tronic may apply for such a certification upon
14 tender of its final payment. The Government Plaintiffs shall
15 issue the Certification of Completion according to the terms of
16 RCW 70.105B.090. The County will request the State of
17 Washington to make a final inspection upon completion of the
18 work as described in Appendix B. The State of Washington shall
19 promptly provide public notice as required by RCW
20 70.105B.090(1), and inspect the work to determine if such work
21 has been completed in accordance with the plans. The
22 inspection shall occur within thirty (30) days of the request
23 unless the parties agree to a later date. The State of
24 Washington shall notify the County in writing within thirty
25 (30) days of the initial inspection that the work has been

26 CONSENT DECREE

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2 satisfactorily completed or shall specify any corrective work
3 it believes to be needed. The County shall notify the State of
4 Washington of the completion of any necessary corrective work.
5 The State of Washington shall reinspect if it deems necessary
6 within ten (10) days of the notification from the County. This
7 procedure shall be utilized in combination with the Dispute
8 Resolution procedures of Section XXVIII if necessary, until it
9 has been determined that the work has been satisfactorily
10 completed. Within ten (10) days of determining the work has
11 been satisfactorily completed, the State of Washington shall
12 issue a certificate of completion to the County, according to
13 the terms of RCW 70.105B.090.

14 2. Notwithstanding any other provision in this Consent
15 Decree, the State of Washington reserves the right to institute
16 proceedings in this action or in a new action (a) seeking to
17 compel the County or Key Tronic to perform or finance further
18 response actions at the Site in addition to or other than the
19 Remedial Action or (b) seeking reimbursement of the Government
20 Plaintiffs' response costs, if:

21 (i) for proceedings before certification of
22 completion, (A) new information reveals conditions at the Site,
23 previously unknown to the Government Plaintiffs, are discovered
24 after the entry of this Consent Decree and which indicates that
25 the Remedial Action is not protective of human health and the

26 CONSENT DECREE

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2 environment; or (B) new information is received after entry of
3 this Consent Decree and the new information reveals a
4 significant quantity of a hazardous substance originating from
5 the Site or condition not identified in the ROD or this Consent
6 Decree as being present at the Site, in an area of the Site
7 other than as described in the ROD or this Consent Decree, or
8 in quantities significantly greater than in this ROD or this
9 Consent Decree;

10 (ii) for proceedings after certification of
11 completion, (A) conditions at the Site, previously unknown to
12 the State of Washington are discovered after certification of
13 completion or information is received, in whole or in part,
14 after certification of completion, and these previously unknown
15 conditions or this information indicate that the Remedial
16 Action is not protective of human health and the environment,
17 or (B) after certification of completion, the State of
18 Washington discovers the release or threatened release from the
19 Site of hazardous substances not identified in the ROD as
20 originating from the Site.

21 3. The State of Washington's right to institute
22 proceedings in this action or in a new action seeking to compel
23 Key Tronic or the County to perform response actions in
24 addition to or other than the Remedial Action regarding
25 contamination originating from the Site, or seeking

26 CONSENT DECREE

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1
2 reimbursement from Key Tronic or the County for the costs of
3 such response actions, may only be exercised where the
4 conditions in Paragraph A.2 are met.

5 4. Notwithstanding any other provision of this Consent
6 Decree, the covenants not to sue under this Section shall not
7 relieve Key Tronic and the County of their obligation to meet
8 and maintain compliance with the requirements set forth in this
9 Consent Decree, including the requirement of Key Tronic to make
10 the payments as provided herein and the requirement of the
11 County to implement the Remedial Action.

12 B. United States.

13 1. Except as specifically provided hereafter in
14 Section XXX(B)(2) and (3) upon compliance by Spokane County and
15 Key Tronic with Sections VII and VIII hereof, EPA, Spokane
16 County and Key Tronic hereby covenant not to sue each other as
17 to all matters alleged or all matters which could have been
18 alleged in the Complaint with regard to the Site, except claims
19 against the EPA-Hazardous Substance Superfund as provided
20 herein in Section XVII. With respect to future liability, this
21 covenant shall take effect upon certification by the United
22 States that the Remedial Action has been successfully
23 completed. This paragraph shall not be construed as a
24 covenant not to sue the County or Key Tronic respectively, if
25 that party does not make all payments required of it by this

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2 Consent Decree, or any other person or entity not a party to
3 this Consent Decree. This covenant not to sue applies only to
4 Spokane County and Key Tronic, including its respective
5 divisions, officials, officers, directors, principals, agents,
6 servants, employees, successors, and assigns, and not to any
7 parent corporation, subsidiaries and affiliates of the County
8 and Key Tronic.

9 2. This Covenant Not to Sue shall not apply to the
10 following:

- 11 a. criminal liability;
- 12 b. with respect to the County, failure to perform
13 the Work in accordance with law or failure to meet the
14 requirements of this Consent Decree or the Plan; or
- 15 c. with respect to the County, liability arising
16 from the transportation of Hazardous Substances recovered from
17 the Site and redisposal thereof of Waste Materials taken from
18 the Colbert Landfill Site; or
- 19 d. with respect to the County and consistent with
20 Sections XIX, XXV and XXX, any costs incurred by the United
21 States as a result of a response action undertaken under
22 Section 104 of CERCLA, 42 U.S.C. § 9604, or any costs incurred
23 by the state as a result of the exercise of its response
24 authority under ch. 70.105 or 70.105B RCW, due to a release or
25 threat of a release at or from the Colbert Landfill Site as a

1
2 result of the failure of Spokane County to perform the Remedial
3 Action or meet the requirements of Section VII or the Scope of
4 Work (Appendix B), whenever Spokane County has failed to so
5 respond after reasonable notice. In the event Spokane County
6 fails to implement the provisions of Section VII in a timely
7 manner, either of the Government Plaintiffs may perform such
8 portions of the Remedial Action as may be necessary, at the
9 cost of Spokane County, subject to Section XV hereof;

10 e. any costs incurred by either Government
11 Plaintiffs as a result of any release or threat of release of
12 hazardous substances at or from the Colbert Landfill Site which
13 results from failure(s) of the County to perform the Remedial
14 Action or meet the requirements of this Consent Decree or the
15 Scope of Work (Appendix B); or from failure(s) of Key Tronic to
16 meet the requirements of this Consent Decree; or

17 f. liability for damage to natural resources, as
18 defined in Section 101(16) of CERCLA, 42 U.S.C. § 9601(16).

19 3. Notwithstanding any other provisions of this Consent
20 Decree, the United States reserves the right to institute
21 proceedings in this action or in a new action seeking to compel
22 Spokane County or Key Tronic to perform additional response
23 work at Colbert Landfill Site or to reimburse the United States
24 for Response Costs, other than Response Costs incurred prior to
25 the effective date of this Consent Decree, if:

26 CONSENT DECREE

1
2 a. for proceedings prior to certification of
3 completion of the respective obligations of the parties per
4 Section VIII by the United States,

- 5 (i) conditions at the Colbert Landfill
6 previously unknown to or undetected by the
7 United States are discovered after the
8 lodging of this Consent Decree and these
9 conditions indicate that a hazardous
10 substance has been, or is being, released
11 or that there is a substantial threat of
12 such a release into the environment; or
13 (ii) the United States determines, based on
14 information received, in whole or in part,
15 after the lodging of this Consent Decree,
16 that the Remedial Action taken at the
17 Colbert Landfill Site, is not protective of
18 human health and the environment.

19 b. For proceedings subsequent to certification of
20 completion of the respective obligations of the parties per
21 Section VIII by the United States,

- 22 (i) conditions at the Colbert Landfill Site
23 previously unknown to or undetected by the
24 United States are discovered after the
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1
2 certification of completion and these
3 conditions indicate that a hazardous
4 substance has been, or is being, released
5 or that there is a substantial threat of
6 such a release into the environment; or
7 (ii) the United States determines, based on
8 information received, in whole or in part,
9 after the certification of completion, that
10 the Remedial Action taken at the Colbert
11 Landfill, is not protective of human health
12 and the environment.

13 4. Notwithstanding any other provision in this Consent
14 Decree, the covenant not to sue in Section XXX(B)(1) shall be
15 subject to the satisfactory performance by Spokane County and
16 Key Tronic of its obligations under this Consent Decree and the
17 covenant not to sue shall not relieve Spokane County or Key
18 Tronic of its obligation to meet and maintain compliance with
19 the requirements set forth in this Consent Decree.

20 5. Spokane County or Key Tronic's claims against any
21 other party in this or any other proceeding for contribution or
22 indemnification of all or a portion of the cost of its
23 settlement herein, shall be secondary to the United States'
24 claim against such other party for the response actions or
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2 other costs incurred by the Government Plaintiffs for actions
3 taken at the Site.
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5 XXXI. EFFECTIVE AND TERMINATION DATES

6 A. This Consent Decree shall be effective upon the date
7 of its entry by the Court.

8 B. Termination of this Consent Decree may only be
9 effected upon completion of all Remedial Action activities
10 including operation and maintenance activities, reimbursement
11 of Government Plaintiffs costs and resolution of any
12 outstanding disputes pursuant to this Decree. Termination of
13 this Consent Decree shall not affect the Covenant Not to Sue,
14 Section XXX, which shall remain in effect as an agreement
15 between the parties.

16 C. This Consent Decree shall remain in effect and the
17 Remedial Action described herein shall be maintained and
18 continued until both Key Tronic and the County receive written
19 Certification of Completion from the Government Plaintiffs.
20 The Certifications of Completion shall be issued according to
21 the terms of RCW 70.105B.090.

22 XXXII. RETENTION OF JURISDICTION

23 This Court shall retain jurisdiction over this matter for
24 the purposes of interpreting, implementing, modifying,
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1
2 enforcing or terminating the terms of this Consent Decree, and
3 of adjudicating disputes between the parties under this Consent
4 Decree.

5 XXXIII. NOTICES

6 Whenever, under the terms of this Consent Decree, written
7 notice is required to be given or a report or other document is
8 required to be given or a report or other document is required
9 to be forwarded by one party to another it shall be directed to
10 the individuals specified below unless those individuals or
11 their successors give notice in writing to the other parties.

12 As to the Governments:

13 Colbert Site Manager
14 Department of Ecology
15 Hazardous Waste Investi-
16 gations and Cleanup
Program
Mail Stop PV-11
Olympia, WA 98504-8711

Colbert Site Manager
EPA Region 10
Superfund Group - HW-113
1200 Sixth Avenue
Seattle, WA 98101

17 As to the Defendants:

18 David Powers
19 Key Tronic Corporation
P. O. Box 14687
20 Spokane, WA 99214

Bill Dobratz
Director of Public
Utilities
N. 811 Jefferson
Spokane, WA 99260

21 XXXIV. LODGING OF DECREE WITH THE COURT AND PUBLIC COMMENT

22 This Consent Decree shall be lodged with the Court for a
23 period of 30 days for public comment pursuant to the provisions
24 of 28 CFR § 50.7, § 122 of CERCLA, 42 U.S.C. § 9622, RCW
25 70.105B.070(5), and WAC 173-340-040(7) and it shall not be

26 CONSENT DECREE

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2 submitted to the Court for execution until the expiration of
3 that period. The parties reserve the right to withdraw or
4 withhold its consent to a judgment based on this Consent Decree
5 if the comments, views and allegations concerning the Consent
6 Decree disclose facts or considerations which indicate that the
7 Consent Decree is inappropriate, improper or inadequate.

8 Comments on the Consent Decree shall be submitted to the
9 United States Department of Justice and shall be promptly
10 forwarded to all parties.
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CONSENT DECREE

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1
2 The State of Washington, the United States, Key Tronic and
3 the County by their duly authorized representatives agree to
4 this Consent Decree subject to the public notice requirements
5 found at 28 CFR § 50.2, RCW 70.105B.070(5) and WAC
6 173-340-040(7).

7 STATE OF WASHINGTON
8 DEPARTMENT OF ECOLOGY

UNITED STATES OF AMERICA
on behalf of the
ENVIRONMENTAL PROTECTION AGENCY

9 By: Christine A. Bquire

By: [Signature]

11 Its: Director

Its: Regional Administrator

12 Date: 11/2/88

Date: November 7, 1988

14 SPOKANE COUNTY

KEY TRONIC CORPORATION

15 [Signature]
16 By: Patricia A. Mumery

By: Lewis G. Zickel

17 [Signature]
18 Its: Ed of County Commes

Chairman of the Board, CEO &
18 Its: President

19 Date: OCT 24 1988

Date: October 24, 1988


20 DATED this ____ day of _____, 1988.

23 JUDGE

26 CONSENT DECREE


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1
2
3 UNITED STATES OF AMERICA

4
5 By: 
6 ROGER J. MARZULLA

7 Its: Assistant Attorney General

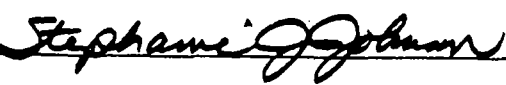
8 Date: _____

9 By: 

10
11 Its: Attorney, Land & Natural Resources
12 Division

13 Date: 12/19/88

14 UNITED STATES ATTORNEY

15 By: 

16
17 Its: Assistant United States Attorney

18 Date: 1/5/89

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26 CONSENT DECREE

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APPENDIX A

I. SITE LOCATION AND DESCRIPTION

The Colbert Landfill is a Spokane County-owned sanitary landfill that was operated from 1968 through 1986. The Colbert area is in northeastern Washington, in Spokane County, approximately 15 miles north-northeast of Spokane, Washington. The landfill covers 40-acres and is located about 2.5 miles north of the Town of Colbert and a half mile east of U.S. Highway 2 (Newport Highway) in the northwestern quadrant of the intersection of Elk-Chattaroy, Yale, and Big Meadows Roads. It is situated in the southeast corner of Section 3, Township 27 North, Range 43 East, W.M. (Figure 1). The landfill received both municipal and commercial wastes up to 1986, is now filled to capacity, and is no longer receiving waste.

The remedial action site, the area of potential impact surrounding the landfill, extends north of the landfill about a half mile, west about a mile to the Little Spokane River, east a similar distance, and south approximately five miles to Peone (or Deadman) Creek. The total area is approximately 6800 acres which includes parts of Sections 2, 3, 10, 11, 14, 15, 16, 21, 22, 23, 26, 27, 28, 33, 34, and 35 of the same township and range. The site is entirely within the drainage basin of the Little Spokane River, mainly on a plateau bounded by bluffs down to the river on the west and knobby granite and basalt hills to the east. (See Figure 1)

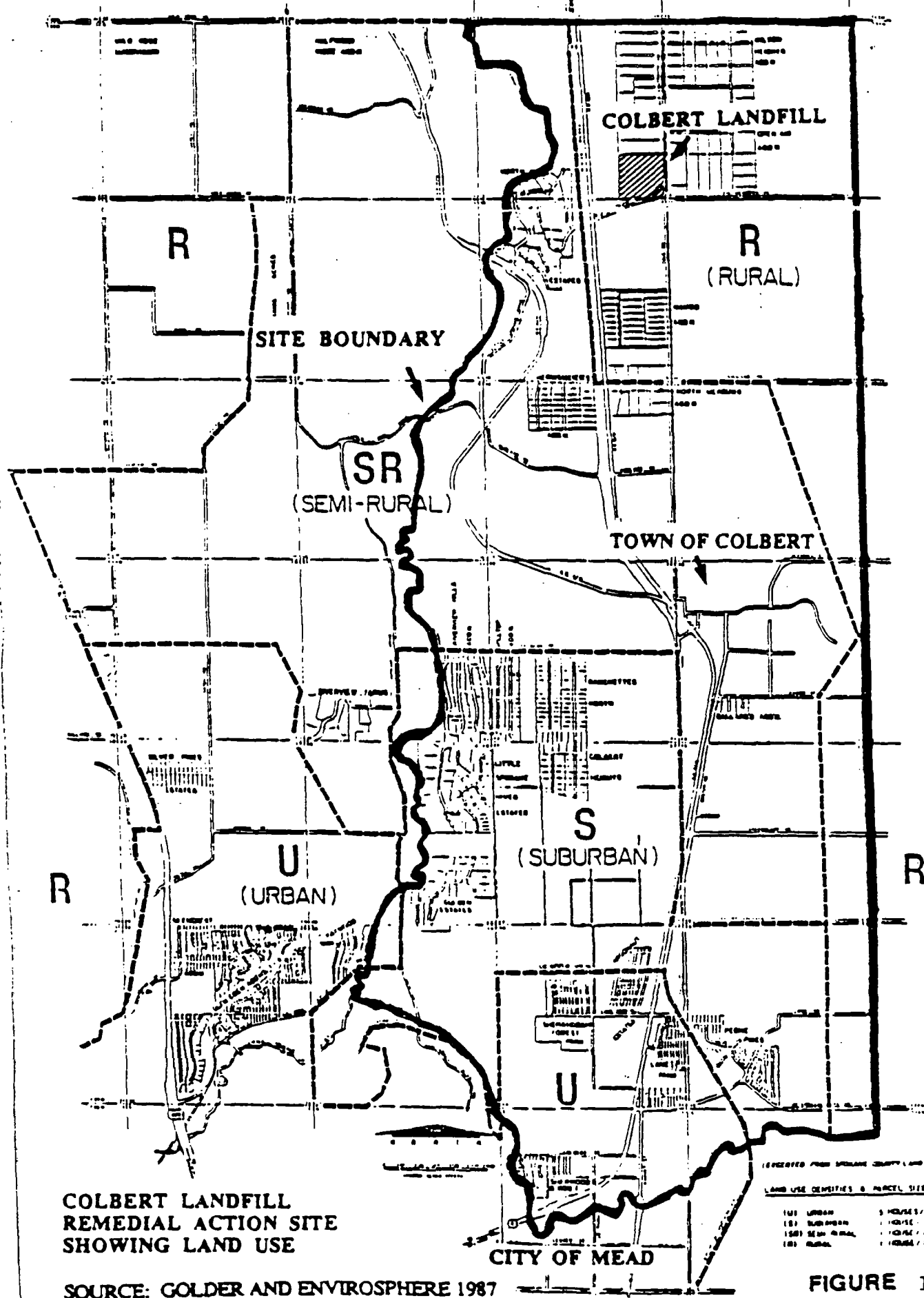


FIGURE 1

APPENDIX "B"

SCOPE OF WORK

FOR

REMEDIAL ACTION TO ADDRESS GROUND WATER CONTAMINATION

EMANATING FROM COLBERT LANDFILL

SPOKANE COUNTY, WASHINGTON

27 September 1988

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I

INTRODUCTION

This Scope of Work sets forth the technical activities associated with remediation of "contamination" emanating from the Colbert Solid Waste Landfill in Spokane County near the town of Colbert, Washington. It shall be the responsibility of the County to prepare, submit for approval, and fully implement work plans incorporating each element of this Scope of Work, and to verify that Performance Standards and criteria set forth in this Scope of Work are met.

For the purposes of the Consent Decree, including this Scope of Work, the terms "contaminants" and "contamination" shall be understood to mean the six compounds or Constituents of Concern identified in Table 1 of the Colbert Landfill Record of Decision (ROD) and Table I-1 of this Scope of Work. These tables also specify the Performance Standards (Health Protection Levels), which are not to be exceeded during operational life of remedial action, in effluents from ground water treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the Remedial Action.

The ROD for Remedial Action at the Colbert Landfill identifies three separate systems, each designed to pump and treat contaminated ground water. These systems have been designated as the south, west, and east systems. Both the south and west systems are intended to intercept contaminated ground water to minimize degradation of downgradient resources. The south system will be designed to pump and treat ground water from the upper sand and gravel aquifer, while the west system will pump and treat water from the lower sand and gravel aquifer. In contrast to the south and west systems, the east system is intended for source control. This system will be designed to remove contamination close to the source, to reduce its potential for migration from the source area. The east system will be designed to pump water from the lower sand and gravel aquifer, and potentially the weathered basalt/Latah and Latah aquifers, which are beneath the lower sand and gravel.

The ROD provides for a performance-based design. The performance-based nature of the ROD allows considerable latitude in the design of the Remedial Action. However, the relatively sparse data available to characterize the hydrogeology and extent of contamination make it impractical to design a system at this time. To supplement the data base, a phased project approach will be implemented. Phase I will combine the pilot studies with further site characterization and the initiation of cleanup activities. Phase II will provide for evaluation of the Phase I results and design of the final Remedial Action program.

TABLE I-1*

PERFORMANCE STANDARDS
MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

Health Protection Levels ^(a)		
Compound	Maximum Concentration (PPB)	Basis ^(b)
1,1,1-Trichloroethane	200	MCL ^(c)
1,1-Dichloroethylene	7	MCL ^(c)
1,1-Dichloroethane	4,050	MAC ^(d)
Trichloroethylene	5	MCL ^(c)
Tetrachloroethylene	0.7	MAC ^(e)
Methylene Chloride	2.5	MAC ^(e)

- (a) Health Protection Levels are not to be exceeded, during operational life of remedial action, in effluents from ground water treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.
- (b) Based on MCL and MAC values in effect as of the date of entry of this Consent Decree.
- (c) Federal Drinking Water Maximum Contaminant Levels (MCL).
- (d) Maximum Acceptable Concentration presented in ROD, Table 5, pg. 31.
- (e) Maximum Acceptable Concentration based on EPA Cancer Assessment Group evaluation (10^{-6} Cancer Risk).

* Source: Table 1, Record of Decision, Colbert Landfill Site, USEPA, September 1987.

In order to comply with the ROD, the work defined in this document must first be completed. It is recognized that information developed during implementation of Phase I of this Scope of Work (Section IV) may alter previous conclusions and indicate that amendment to the Scope of Work, or other portions of the Consent Decree, as it relates to Phase II, is appropriate. Such information may include data relating to the extent of contamination, site hydrogeology, initial field pilot testing, technical feasibility or implementability of the remedial options originally chosen, or refinement of the relative costs of available options. Remedial Actions designed to meet the objectives of Section II of this Scope of Work will be accomplished during Phase II (Section V).

II

OBJECTIVES

The objectives of the Remedial Action at the Colbert Land-fill Site are to:

- A. Prevent ingestion of contaminated ground water;
- B. Provide alternative drinking water supplies to those residents whose domestic water supply well(s), in use prior to the date of entry of this Consent Decree, are now contaminated or become contaminated at levels exceeding those described in Section VIII of this Scope of Work, or where the productivity of their existing supply well(s) is adversely impacted by remedial activities;
- C. Prevent the further spread of contaminated ground water and remove contamination related to the site from the ground water aquifers;
- D. Protect surface waters from ground water discharges potentially harmful to aquatic organisms;
- E. Establish institutional controls as authorized by law to promote and support remedial actions; and
- F. Prevent transfer of Constituents of Concern from water to air at levels above health protection criteria.

These objectives are met by the actions to be taken in accordance with this Scope of Work.

III

GENERAL REQUIREMENTS

The general requirements of this Scope of Work are as follows:

A. All actions performed at and around the site pursuant to this Scope of Work shall be accomplished in accordance with work plans, which shall be prepared by the County and submitted for review and approval by the Government Plaintiffs. Work plans for each element of the Remedial Action program shall include relevant designs; construction sequences and schedules; and maintenance, operating and monitoring requirements. In addition to these basic requirements, the ground water extraction and treatment plans shall include all design assumptions and other engineering support materials as appropriate.

B. All work shall be performed under an appropriate health and safety plan for the protection of workers and the surrounding community. The County shall submit this plan to the Government Plaintiffs for review and approval.

C. The County shall require their contractors to be responsible for observing safe practices with respect to all active local utilities within the site.

D. The County shall submit to the Government Plaintiffs, for review and approval, a sampling and analysis protocol for all ground water monitoring before any such activity is undertaken. This sampling and analysis protocol shall include a description of field sampling procedures and specify procedures for Quality Assurance/Quality Control. All procedures shall conform with appropriate EPA guidance documents. Detection limits attainable using standard procedures specified for the EPA Contract Laboratory Program as of the date of entry of the Consent Decree shall be used. The County shall provide the Government Plaintiffs with quality-assured data as they become available.

E. Each ground water extraction and treatment system shall remain operable until the performance criteria identified in this Scope of Work (Section X) are met. Discharges of air and water from these systems shall be in compliance with applicable regulations.

F. Definitions set forth in Section IV of the main body of the Consent Decree shall apply throughout this Scope of Work.

IV

PHASE I

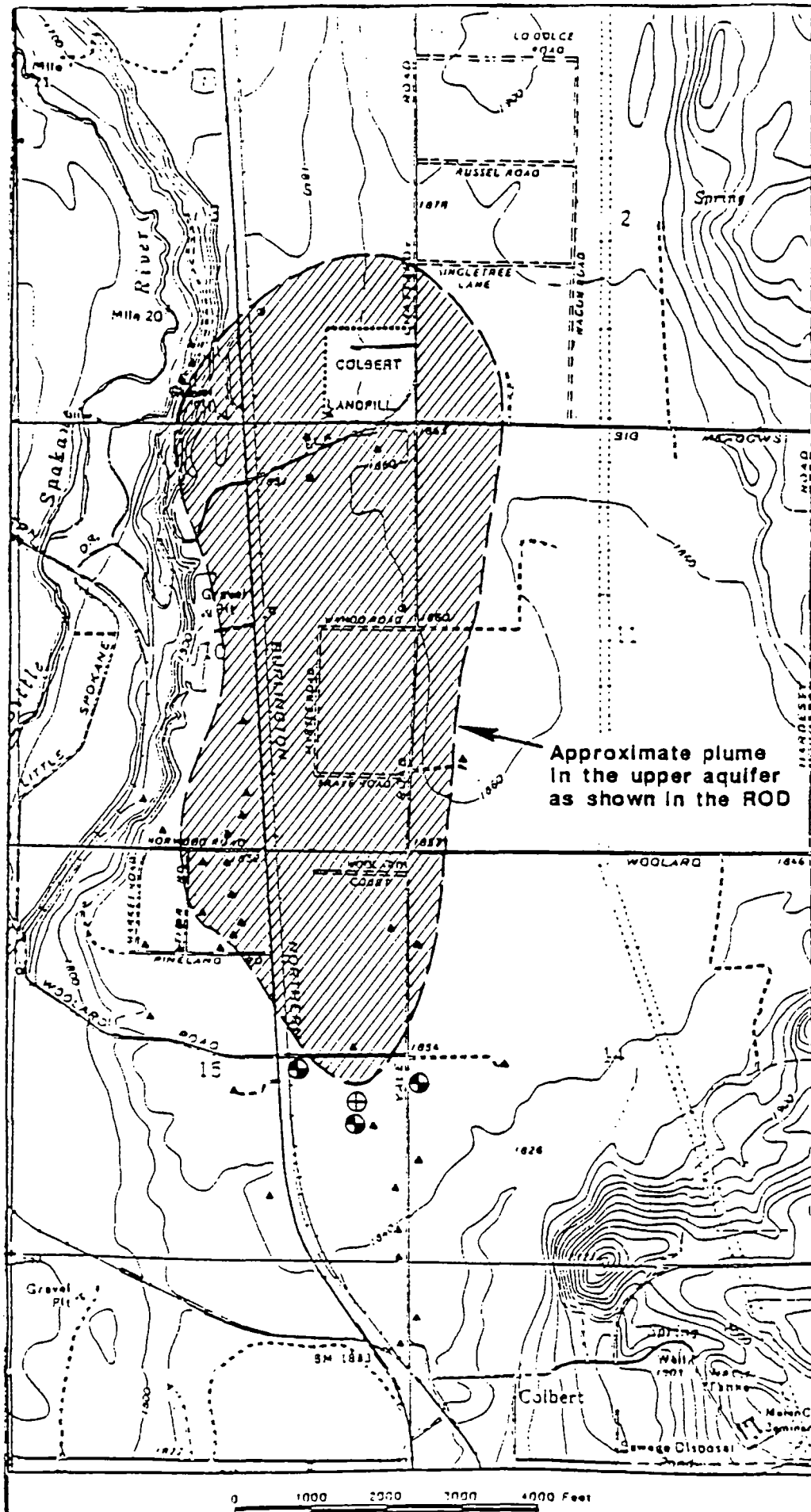
A. South System

1. **Introduction** -- Previous studies of contamination emanating from the Colbert Landfill have identified a contaminant plume moving to the south in the upper aquifer. The location of the plume is based on limited data obtained in late 1985. These data are insufficient to adequately define the extent of the contaminant plume and project the rate or direction of future contaminant migration. The purpose of Phase I for the upper aquifer south of the landfill is to develop specific design requirements for a Phase II - South ground water interception and treatment system, and to initiate cleanup in this area. Activities described in this section relate to the upper aquifer south of the landfill and include: installation of a pilot ground water extraction and treatment system, installation of a ground water monitoring system to identify the location of the contaminant plume and assess the performance of the pilot system, assessment of treated water discharge management options, and definition of the Phase II - South ground water interception and treatment system.

2. **Site Investigations** --

a. **Installation of Monitoring Wells** -- A series of three to five monitoring wells will be installed to provide data needed to assess the contaminant distribution in, and hydrogeologic properties of, the upper aquifer near the probable location for a system of ground water extraction wells. These monitoring wells will be installed in phases, first to identify the preferred location of the pilot extraction well and later to assess pilot interception system performance.

Initially, three monitoring wells will be installed at the approximate locations shown on Figure IV-1. The actual locations of these monitoring wells will depend on plume contaminant levels and site access, and may vary from the locations shown. These wells will provide data related to contaminant concentration levels, saturated thickness of the aquifer, and hydraulic gradient, from which the location and design characteristics of the pilot extraction well will be determined. If the County determines that the location of the pilot extraction well will not be close to one of the initial monitoring well locations, up to two additional monitoring wells will be installed near the selected pilot extraction well site. These wells will be used to confirm the final site selection for, and to assess the performance of, the pilot extraction well after it is installed. Monitoring wells will be constructed of 2-inch Schedule 80 PVC and screened within the upper aquifer up to a maximum 20 foot length.



Source: Golder Associates, Inc., May 1987.

Phase I - South System

b. Monitoring Well Sampling and Analysis -- Chemical analysis of water samples from the monitoring wells will be used to evaluate contaminant characteristics and other critical water quality parameters. Water level measurements will be used to evaluate the horizontal hydraulic gradient and the saturated thickness of the aquifer. This information will be used for design, placement, and performance evaluation of the pilot extraction well and in the design of the Phase II - South treatment and discharge system.

Chemical analyses will focus on the six compounds identified in Table I-1 and will be performed by EPA Method 8010 (SW-846, USEPA, 1986) or equivalent. These compounds are:

- 1,1,1-trichloroethane (1,1,1-TCA)
- 1,1-dichloroethylene (1,1-DCE)
- 1,1-dichloroethane (1,1-DCA)
- trichloroethylene (TCE)
- tetrachloroethylene (PCE)
- methylene chloride (MC)

Other parameters, including temperature, pH, conductivity, hardness, iron, and manganese will be determined for use during treatment system design activities.

Due to difficulties anticipated in accurately quantifying methylene chloride and tetrachloroethylene at their Performance Standard concentrations, alternative evaluation criteria have been developed for these constituents. These criteria are presented in Table IV-1, along with the Performance Standards for the other constituents of concern. Table IV-1 evaluation criteria will be applied to the interception, treatment, and discharge of ground water containing constituents of concern. If the levels to which these compounds can be accurately quantified (using EPA Method 8010) change during the course of this project, Table IV-1 will be adjusted accordingly. However, evaluation criteria will not be adjusted to concentrations lower than the Table I-1 Performance Standards.

The three initial monitoring wells will be sampled after development. Analysis of samples from this effort may be sufficient to identify the final location of the pilot extraction well. In the event of anomalies in data from this initial sampling, the County may, at its discretion, conduct follow-up sampling at bi-weekly intervals for verification purposes.

Monitoring wells at up to two additional locations will be installed in the vicinity of the proposed pilot well site and sampled after development. Data obtained from these wells will be used to assess performance of the pilot well. As above, in the event of anomalies in these data, the County may, at its discretion, conduct follow-up bi-weekly sampling and analysis for verification purposes.

TABLE IV-1
EVALUATION CRITERIA

Compound	Evaluation Criteria (ppb)
1,1,1-Trichloroethane	200
1,1-Dichloroethylene	7
1,1,2-Dichloroethane	4,050
Trichloroethylene	5
Tetrachloroethylene	7
Methylene Chloride	25

* * * * *

During the first month after pumping of the pilot extraction well begins, samples for chemical analysis will be obtained at least weekly from the pilot extraction well and at least the two closest monitoring wells. After this initial 4-week period, the pilot extraction well and the monitoring wells will be sampled and analyzed at least quarterly during operation of the pilot system.

c. Water Level Monitoring -- Water level monitoring will be conducted in at least the two monitoring wells closest to the pilot extraction well. Data from this effort will be used to assess pilot extraction well performance and further define the hydrogeology of the site. Monitoring will begin before startup of the pilot pumping system and will continue until water level conditions stabilize or until it is demonstrated that continuous pumping is not possible. Private supply wells may, at the County's discretion, be included in this study.

3. Pilot Extraction Well -- Information obtained from the pilot extraction well is intended to aid in the design of the Phase II - South interception, treatment, and discharge system.

a. Location of the Pilot Extraction Well -- Ideally, the pilot extraction well would be installed at a location where contaminant concentrations are approximately equal to the Performance Standards. The preliminary location, based on available data, is shown on Figure IV-1.

b. Construction of the Pilot Extraction Well -- Construction details for the pilot extraction well will be influenced by information obtained from the initial monitoring wells. It is anticipated that the pilot well will be constructed using 6- or 8-inch diameter steel casing and a stainless steel screen. The screen length will be approximately one-half to two-thirds of the saturated thickness of the aquifer. The bottom of the screen will be placed at the base of the aquifer near the contact with the lacustrine deposit.

c. Pumping of the Pilot Extraction Well -- The pilot extraction well will be equipped with a submersible pump. A well at this location should be capable of providing at least 20 to 50 gallons per minute (gpm). The pumping rate may, at the County's discretion, be increased to 100 gpm if the aquifer is capable of sustained production at that rate.

d. Duration of Pilot Testing -- It is intended that the pilot extraction well operate for at least a 30-day period, and possibly until implementation of the complete Phase II - South system. If appropriate, it will be incorporated into the Phase II - South system.

e. Chemical Analysis of Pilot Well Samples -- Analysis of samples from the pilot extraction well will be as described above in Section IV.A.2b.

4. Treatment System -- The treatment system ultimately constructed as part of the Phase II - South system must utilize cost-effective and reliable technology. Cost effectiveness is to be based on long-term operating and maintenance costs as well as the initial installation cost.

A pilot air stripping system will be included as part of the Phase I activities. This system will be capable of handling variable flow rates of up to 100 gpm and discharging water at concentrations that comply with the Table IV-1 evaluation criteria. Samples will be collected at least weekly from the discharge pipe to verify compliance with the evaluation criteria. Final design of this system will be dependent on input water quality characterized by the initial monitoring wells. This temporary system will not include off-gas treatment or air monitoring.

5. Treatment System Water Discharge -- Discharge will be to Deep Creek or the Little Spokane River or subsurface infiltration. If discharge is to the Little Spokane River, sizing of the discharge line may reflect Phase II - South system discharge rates if these can be adequately defined prior to operation and evaluation of the pilot system.

6. Study Analysis and Feasibility Evaluation -- In the event that the preferred remedy identified in the ROD is no longer feasible or cost effective, the County will propose a new alternative.

B. East System

1. **Introduction --** Previous studies have identified elevated concentrations of contaminants in the vicinity of the Colbert Landfill within the lower aquifer(s). ("Lower aquifer(s)" include the lower sand and gravel, weathered basalt/Latah, and Latah aquifers). However, data from these studies are insufficient to adequately characterize the nature and define the extent of the contaminant plume. The purpose of Phase I for the lower aquifer(s) north and east of the landfill is to focus on specific design requirements for a Phase II - East ground water extraction and treatment system, and to initiate cleanup in this area. Activities described in this section relate to the lower aquifer(s) immediately to the north and east of the landfill and include: installation of two pilot ground water extraction wells and a common treatment system, installation of a ground water monitoring system to improve definition of the location of the contaminant plume and assess the performance of the pilot systems, assessment of treated water discharge management options, and definition of the Phase II - East ground water extraction and treatment system.

2. **Site Investigations --**

a. **Installation of Monitoring Wells --** A series of nested monitoring wells at four to eight locations will be installed to provide data needed to assess the contaminant distribution in, and hydrogeologic properties of, the lower aquifer(s) for the source control (east) extraction system. These monitoring wells will be installed in phases, first to identify the preferred location of the two pilot extraction wells and later to assess performance of the pilot extraction systems.

Initially, nested monitoring wells will be installed at four locations. The approximate locations are shown on Figure IV-2. The actual locations of the monitoring wells will depend on site access and may vary from the locations shown. Up to three wells will be installed at each monitoring location. These wells will be screened within the following aquifers, if present: the upper sand and gravel aquifer, the lower sand and gravel aquifer, and the weathered basalt/Latah aquifer or the Latah aquifer. These wells will provide data related to contaminant concentration levels, saturated thickness of the aquifer(s), and horizontal and vertical hydraulic gradients, from which the locations and design characteristics of the pilot extraction wells will be determined. If the locations of the pilot extraction wells are found not to be close to one of the initial monitoring wells, a total of up to two additional nests of monitoring wells will be installed near each of the selected pilot extraction well locations. These wells will be used to confirm the final site selections for, and to assess the performance of, the pilot extraction wells after they are installed. Monitoring wells will be constructed of 2-inch Schedule 80 PVC and screened up to a maximum 20 foot length.

b. Monitoring Well Sampling and Analysis -- Chemical analysis of water samples from the monitoring wells will be used to evaluate contaminant characteristics and other important water quality parameters. Water level measurements will be used to evaluate saturated thickness and vertical and horizontal hydraulic gradients. This information will be used for design, placement, and performance evaluation of the pilot extraction wells and in the design of the Phase II - East treatment and discharge system.

Chemical analyses will focus on the six compounds identified in Table I-1 and will be performed by EPA Method 8010 (SW-846, USEPA, 1986) or equivalent. These compounds are:

- 1,1,1-trichloroethane (1,1,1-TCA)
- 1,1-dichloroethylene (1,1-DCE)
- 1,1-dichloroethane (1,1-DCA)
- trichloroethylene (TCE)
- tetrachloroethylene (PCE)
- methylene chloride (MC)

Other parameters, including, but not limited to, temperature, pH, conductivity, hardness, iron, and manganese may be determined for use during treatment system design activities.

The initial monitoring wells will be sampled after development. Analysis of samples from this effort may be sufficient to identify the final locations of the pilot extraction wells. In the event of anomalies in data from this initial sampling, the County may, at its discretion, conduct follow-up sampling at bi-weekly intervals for verification purposes.

If additional wells are required in the vicinity of the proposed pilot well locations, they will also be sampled after development. Data obtained from these wells will be used to assess performance of the pilot wells. As above, in the event of anomalies in these data, the County may, at its discretion, conduct follow-up bi-weekly sampling and analysis for verification purposes.

During the first month after pumping of the pilot extraction wells begins, samples for chemical analysis will be obtained at least weekly from the pilot extraction wells and at least the two closest monitoring wells. After this initial 4-week period, the pilot extraction wells and the monitoring wells will be sampled and analyzed at least quarterly during operation of the pilot systems.

c. Water Level Monitoring -- Water level monitoring will be conducted in at least the two monitoring wells closest to each of the pilot extraction wells. Data from this effort will be used to assess performance of the pilot extraction wells and further define the hydrogeology of the site. Monitoring will begin before startup of the pilot pumping systems and will

continue until water level conditions stabilize or until it is demonstrated that continuous pumping is not possible. At the County's discretion, private supply wells may be included in this study.

3. **Pilot Extraction Wells** -- Information obtained from the pilot extraction wells is intended for use in the design of a Phase II - East extraction, treatment, and discharge system.

a. **Location of the Pilot Extraction Wells** -- Pilot extraction wells will be installed to the north and to the east of the landfill. The ground water data from the initial monitoring wells will be used to select the final locations of the pilot wells. The preliminary locations, based on available data, are shown on Figure IV-2.

b. **Construction of the Pilot Extraction Wells** -- Construction details for the pilot extraction wells will be influenced by information from the initial monitoring wells. It is anticipated that these wells will be constructed using 6- or 8-inch diameter steel casing and stainless steel screen.

c. **Pumping of the Pilot Extraction Wells** -- The pilot extraction wells will be equipped with a submersible pump. It is anticipated that the well located to the north of the landfill will be capable of providing at least 50 gpm. At the County's discretion, the pumping rate may be increased to 150 gpm if the aquifer is capable of sustained production at that rate. The well located to the east of the landfill may be capable of providing 10 to 50 gpm. The design will be based on a maximum flow of 50 gpm.

d. **Duration of Pilot Testing** -- It is intended that the pilot extraction wells will operate for at least a 30-day period, and possibly until implementation of the complete Phase II - East system. If appropriate, they will be incorporated into the Phase II - East system.

e. **Chemical Analysis of Pilot Well Samples** -- Analysis of samples from the pilot extraction wells will be as described in Section IV.B.2b.

4. **Treatment System** -- The treatment system ultimately constructed as part of the Phase II - East system must utilize cost-effective and reliable technology. Cost effectiveness is to be based on long-term operating and maintenance costs as well as the initial installation cost.

A pilot air stripping system will be included as part of the Phase I activities. This system will be capable of handling variable flow rates of up to 200 gpm and discharging water at concentrations that comply with the Table IV-1 evaluation criteria. Samples will be collected at least weekly from the discharge pipe to verify compliance with the Table IV-1 evaluation criteria. This temporary system will not include off-gas

treatment, but will include air monitoring. Final design of this system will be dependent on input water quality characterized by the initial monitoring wells.

5. **Treatment System Water Discharge** -- Discharge will be piped to the Little Spokane River or recharged to the ground water system at the landfill site. Subject to the approval of the Government Plaintiffs, recharge of treated water may be utilized as a mechanism for accelerating cleanup of source areas. Such a system would initially consist of one to three recharge wells located near the east property boundary and screened below the base of the landfill. If appropriate, the system could be expanded during Phase II to other portions of the landfill site.

6. **Study Analysis and Feasibility Evaluation** -- In the event that the preferred remedy identified in the ROD is no longer feasible or cost effective, the County will propose a new alternative.

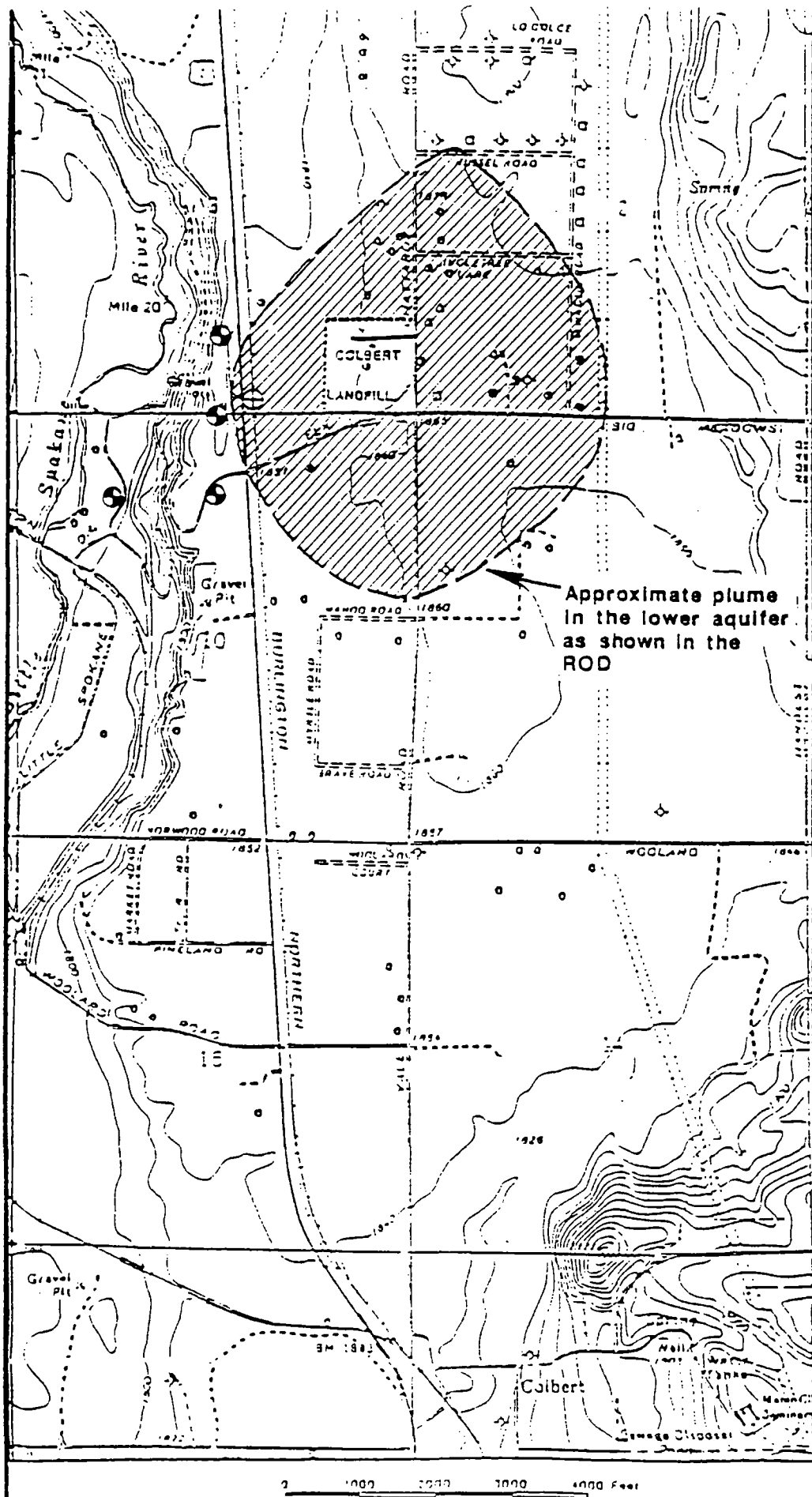
C. West System

1. **Introduction** -- Previous studies of contamination emanating from the Colbert Landfill have identified a contaminant plume moving to the west in the lower aquifer. The location of the plume is based on limited data obtained in late 1985. These data are insufficient to adequately define the extent of the contaminant plume and project the rate or direction of future contaminant migration. The purpose of Phase I for the lower sand and gravel aquifer west of the landfill is to develop specific design requirements for a Phase II - West ground water interception and treatment system, and initiate cleanup in this area. Activities described in this section relate to the lower aquifer west of the landfill and include: installation of a pilot ground water extraction and treatment system; installation of a ground water monitoring system to identify vertical and horizontal hydraulic gradients, determine the current location and distribution of the contaminant plume, and assess the performance of the pilot extraction system; assessment of treated water discharge management options; and definition of a Phase II - West ground water interception and treatment system.

2. **Site Investigations** --

a. **Installation of Monitoring Wells** -- A series of nested monitoring wells will be installed at four to six locations to provide data needed to assess the contaminant distribution and hydrogeologic properties of the lower aquifer west of the landfill for a system of ground water extraction wells. One to three monitoring wells will be installed at each location. These wells will be installed in phases, first to identify the preferred location of the pilot extraction well and later to assess pilot extraction system performance.

Initially, nested monitoring wells will be installed at approximately the four locations shown on Figure IV-3. The actual locations of the monitoring wells will depend on site access and may vary from the locations shown. All monitoring wells will be completed in the lower sand and gravel aquifer and will provide data related to contaminant concentration levels, vertical contaminant distribution, saturated thickness of the aquifer, and hydraulic gradients, from which the location and design characteristics of the pilot extraction well will be determined. If it is determined that the location of the pilot extraction well is not close to one of the initial monitoring well locations, up to two additional nests of monitoring wells will be installed near the selected pilot extraction well site. These wells will be used to confirm the final site selection for, and to assess the performance of, the pilot extraction well after it is installed. Monitoring wells at each location will be constructed of 2-inch Schedule 80 PVC and screened at incremental depths within the lower sand and gravel aquifer. Each monitoring well will be screened up to a maximum 20 percent of the aquifer thickness.



WELL LOCATION AND AQUIFER REPRESENTED

- Unknown
- Lower Sand
- Multiple Completion Well
- Weathered Basalt/Latan
- Latan
- ▲ Granite
- ⊙ Approximate location of Initial Monitoring Well
- ⊕ Preliminary location of Pilot Well

Source: Golder Associated, Inc., May 1987

Phase I - West System

b. Monitoring Well Sampling and Analysis -- Chemical analysis of water samples from the monitoring wells will be used to evaluate contaminant characteristics and other important water quality parameters. Water level measurements will be used to evaluate aquifer thickness, vertical and horizontal hydraulic gradients, and the influence of the Little Spokane River on ground water flow. This information will be used for design, placement, and performance evaluation of the pilot extraction well and in the design of the Phase II - West treatment and discharge system.

Chemical analyses will focus on the six compounds identified in Table I-1 and will be performed by EPA Method 8010 (SW-846, USEPA, 1986) or equivalent. These compounds are:

- 1,1,1-trichloroethane (1,1,1-TCA)
- 1,1-dichloroethylene (1,1-DCE)
- 1,1-dichloroethane (1,1-DCA)
- trichloroethylene (TCE)
- tetrachloroethylene (PCE)
- methylene chloride (MC)

Other parameters, including, but not limited to, temperature, pH, conductivity, hardness, iron, and manganese, may be included for use during treatment system design activities.

The monitoring wells at the four initial locations will be sampled after development. Analysis of samples from this effort will be used to identify the final location of the pilot extraction well. In the event of anomalies in data from this initial sampling, the County may, at its discretion, conduct follow-up sampling at bi-weekly intervals for verification purposes.

If necessary, monitoring wells will be installed at up to two additional locations in the vicinity of the proposed pilot extraction well location. These wells will be sampled after development. Data obtained from these wells will be necessary to later assess performance of the pilot extraction well. As above, in the event of anomalies in this data, the County may, at its discretion, conduct follow-up bi-weekly sampling and analysis for verification purposes.

During the first month after pumping of the pilot extraction well begins, samples for chemical analysis will be obtained at least weekly from the pilot extraction well and the two closest monitoring wells. After this initial 4-week period, the pilot extraction well and the monitoring wells will be sampled and analyzed at least quarterly during operation of the pilot system.

c. Water Level Monitoring -- Water level monitoring will be conducted in at least the two monitoring wells closest to the pilot extraction well. Data from this effort will be used to assess the performance of the pilot extraction well and further characterize the hydrogeology of the site. Monitoring will begin before the startup of the pilot pumping system and will continue

until water level conditions stabilize or until it is demonstrated that continuous pumping is not possible. At the County's discretion, private supply wells may be included in this study.

3. **Pilot Extraction Well** -- Information obtained from the pilot extraction well is intended to aid in the design of a Phase II - West interception, treatment, and discharge system.

a. **Location of the Pilot Extraction Well** -- The pilot extraction well will be installed east of Highway 2 close to the abandoned railroad alignment. The preliminary location, based on available data, is shown on Figure IV-3. In selection of this preliminary site, consideration has been given to the location of the Phase II - West interception system.

b. **Construction of the Pilot Extraction Well** -- Construction details for the pilot extraction well will be influenced by information from the initial monitoring wells. It is anticipated that this well will be constructed using 6- or 8-inch diameter steel casing and a stainless steel screen. The screen length will be at least 10 feet and will be placed based on vertical contaminant distribution data from nearby monitoring wells.

c. **Pumping of the Pilot Extraction Well** -- The pilot extraction well will be equipped with a submersible pump. A well at this location should be capable of providing at least 100 gpm. At the County's discretion, the pumping rate may be increased to 200 gpm if the aquifer is capable of sustained production at that rate.

d. **Duration of Pilot Testing** -- It is intended that the pilot extraction well will operate for at least a 30-day period, and possibly until implementation of the complete Phase II - West system. If appropriate, it will be incorporated into the Phase II - West system.

e. **Chemical Analysis of Pilot Well Samples** -- Analysis of samples from the pilot extraction well will be as described in Section IV.C.2b.

4. **Treatment/Discharge System** -- The treatment system ultimately constructed as part of the Phase II - West system must utilize cost-effective and reliable technology. Cost effectiveness is to be based on long-term operating and maintenance costs as well as the initial installation cost.

A pilot gravity air stripping system, utilizing the drop in elevation between the bluff and the Little Spokane River, will be constructed as part of the Phase I activities. This system will operate by discharging pumped water to a ditch and allowing natural and induced aeration to volatilize contaminants. The ditch will be lined with a low permeability geomembrane fabric until the point where concentrations decrease to levels below the

Table IV-1 evaluation criteria. Samples will be collected at least weekly from the discharge to verify compliance with the Performance Standards. The ditch will include energy dissipaters to accelerate volatilization and minimize erosion.

Initially, the gravity air stripping system will be designed to accommodate flow rates of up to 200 gpm, but the ditch may, at the County's discretion, be sized to handle anticipated Phase II - West discharge rates. Final design of this system will depend on input water quality as characterized by the monitoring wells. Field testing during startup may be required to determine the length of geomembrane-lined ditch required to attain the Table IV-1 evaluation criteria. This pilot gravity air stripping system will not include off-gas treatment or air monitoring.

5. **Study Analysis and Feasibility Evaluation** -- In the event that the preferred remedy identified in the ROD is no longer feasible or cost effective, the County will propose a new alternative.

Phase IIA. Extraction, Water Treatment, and Discharge - South System1. Bases for Design --

a. The goal of the south ground water interception system is to prevent the spread of contaminated ground water downgradient* of the interception system. Both the Government Plaintiffs and the County recognizes that the interception system, during operation, may not capture 100 percent of the plume which contains constituents of concern, but consider it reasonable to design an interception system which approaches this goal.

b. Location of the Interception System -- The ground water interception system will be located based on information developed during Phase I pilot studies. Important considerations in placement of the interception system will include: concentrations and areal distributions of contaminants in the ground water; and hydrogeologic conditions identified during Phase I, such as saturated thickness of the aquifer, hydraulic conductivity, hydraulic gradients, and aquifer boundary conditions.

c. Treatment System -- The treatment system will be designed to meet the Performance Standards at the point of discharge from the treatment system. This design will be based on the maximum anticipated contaminant mass influent rate and treatment efficiency levels demonstrated during Phase I pilot testing. Compliance with applicable air emission standards will be addressed during treatment system design in accordance with the provisions of Section V.D.

d. Cost Effectiveness -- Design of the Phase II interception/treatment/discharge system will also consider cost effectiveness. The minimum level of effort required for the south interception system is prevention of the spread of the constituents of concern at concentrations which exceed the evaluation criteria identified in Table IV-1. The treatment and discharge system must meet the evaluation criteria. The County, at its discretion, may either select proven technology or new technologies which attain these criteria more economically. The system plans will be submitted to the Government Plaintiffs for review and approval.

* For the purpose of this Scope of Work, the terms upgradient and downgradient refer to the ground water gradient under non-pumping, steady state conditions, unless specifically indicated otherwise.

2. Design Components and Bases for Decision--

a. Monitoring -- The County may, at its discretion, decide, following completion of Phase I, to install up to three additional monitoring wells to better characterize the hydrogeology and contaminant distribution in the shallow aquifer. If so decided, the County will provide plans to the Government Plaintiffs for review, identifying the number and location of additional monitoring wells. Information from these wells would be used to confirm or refine data from Phase I prior to construction of the Phase II system.

As the plan for the Phase II ground water interception system is finalized, a ground water monitoring program will be instituted to evaluate interception system performance. The interception system monitoring wells will consist of at least three, and not to exceed eight, monitoring wells located downgradient of the ground water interception system, and two monitoring wells placed at the outer limit of the interception system. The wells at the outer limits will also serve as extraction wells, if adjustment control criteria (as described in Section V.A.2b) are exceeded in these wells during monitoring. The County will determine if the interception system monitoring wells will include wells installed as part of the Phase I program. Phase I wells not included as interception system monitoring wells will be monitored at the County's discretion. A more extensive monitoring system may be proposed by the County if they determine that additional monitoring is appropriate. Plans for additional monitoring would be provided to the Government Plaintiffs for review and approval.

Chemical analysis for the interception system monitoring wells will be accomplished for the four indicator compounds identified in Table V-1, using EPA Method 8010 (SW-846, USEPA, 1986), on the frequency described in the following paragraph. Methylene chloride and tetrachloroethylene have been excluded from Table V-1 due to the high probability of laboratory contamination for methylene chloride, and the limited distribution in the ground water of both methylene chloride and tetrachloroethylene. Although methylene chloride and tetrachloroethylene do not form the basis for interception system design and operation criteria, they will be included in chemical analysis annually for at least the first five years of system operation. If methylene chloride and/or tetrachloroethylene are detected at concentrations above the Table IV-1 evaluation criteria during Phase I or during annual sampling described in this paragraph, the compounds will be monitored at the frequency of the other compounds listed in Table V-1. After this five-year period, the need for continued analysis for methylene chloride and tetrachloroethylene will be re-evaluated.

TABLE V-1

OPERATIONAL AND ADJUSTMENT CONTROL CRITERIA^(a)

Compound	Maximum ^(b) Operational Control Criteria (ppb)	Maximum ^(c) Adjustment Control Criteria (ppb)
1,1,1-Trichloroethane	60	130
1,1-Dichloroethylene	N/A ^(d)	5
1,1-Dichloroethane	1,200	2,600
Trichloroethylene	N/A ^(d)	4

- (a) Maximum criteria are presented in this table. Criteria may be lower than these values, as described in Sections V.A.2b. and V.C.2b. of this Scope of Work.
- (b) Operational control criteria as represented by 30 percent of the Table IV-1 evaluation criteria.
- (c) Adjustment control criteria as represented by 65 percent of the Table IV-1 evaluation criteria.
- (d) Resulting concentration is too low to be accurately quantified using standard laboratory procedures. This constituent will not be included as part of the operational control criteria.

Quarterly sampling and analysis will be conducted for each of the interception system monitoring wells, except that the performance monitoring wells will initially be sampled more frequently as subsequently described in Section V.A.2b. Quarterly sampling of each well will be continued until no exceedance of the operational control criteria (as described in Section V.A.2b) is identified for twelve consecutive quarters. In the event that, for a particular well, no exceedances occur during the twelve quarters, sampling frequency will be reduced to an annual basis for the next two years. If no exceedances have been identified during this five-year period, the County will, with Government Plaintiff's approval, determine whether continued monitoring is appropriate based on the need to assure long-term protection of purveyor wells at the site. If, in a particular monitoring well (or converted extraction well, as described below in Section V.A.2b.), no exceedances occur, but an increasing trend in concentrations is identified that is likely to result in exceedance of the operational control criteria, the County will implement a longer-term sampling and analysis program that assures the protection of human health.

In the event that a single exceedance of an applicable criteria (Table IV-1 or Table V-1) occurs, a follow-up sample will be obtained. An exceedance will be confirmed if concentrations exceeding an applicable criteria are identified in three consecutive samples collected at two-week intervals. If an exceedance is confirmed, the County will submit, for the Government Plaintiffs' review and approval, a program including additional monitoring wells or additional monitoring of existing wells to address the exceedance.

The criteria resented in this section (V.A.2a) applies only to monitoring during system operation. While the interception system is shut off and on standby status, this system operation criteria is superseded by the monitoring criteria described in Section X of this Scope of Work.

b. Interception System -- In order to meet the goals identified in Section V.A.1a, the County will accomplish the following:

- o Conduct the Phase I pilot studies to obtain the needed aquifer characteristics for designing an interception system.
- o Complete a preliminary design engineering report detailing the most probable aquifer characteristics, design parameters and project costs. The system will be designed utilizing capture zone analysis to achieve overlapping cones of depression, and such that the total pumping capability of the interception well system is sufficient to intercept the plume to the extent described within this section (V.A.2b). Selection of pumping test methodologies and capture zone analysis will be

subject to the review and approval of the government plaintiffs.

The extraction wells will be installed near the leading edge of the plume. Extraction wells will be installed in succession from the center to the outermost limits of the plume. The spacing of the wells will be determined by the County based on hydrogeologic and chemical data. Additional wells will be installed until the ground water at the outermost limits is below the adjustment control criteria. The outermost wells will be included as interception system monitoring wells, and will be constructed such that conversion to extraction wells is possible if exceedances of adjustment control criteria are subsequently identified. If an outboard monitoring well is converted to an extraction well, an additional monitoring well (constructed for possible conversion to an extraction well) will be installed to the outside of the converted monitoring/extraction well.

The design criteria will serve as a guide to the use of the aquifer capture analysis referred to earlier in this section. The basis for the south interception system design will be that the average concentrations of the contaminants of concern in the upper aquifer downgradient of the interception system are predicted to be no greater than 15 percent of the Table I-1 Performance Standards based on capture zone analysis.

Commencing at a mutually agreed upon time following startup of the interception system, the downgradient interception system monitoring wells will be sampled monthly (for Table V-1 constituents) for two years, or some other mutually agreed-upon length of time. The Government Plaintiffs will select at least three, and not to exceed eight, of these downgradient wells for use as performance monitoring wells. These wells will be selected to provide a representative sampling of constituent concentrations across the full width of the interception system. Based on statistical analysis of the chemical data from these performance monitoring wells, a baseline concentration* will be identified for each Table V-1 constituent. This baseline concentration will be equal to the average of the time-averaged concentrations in the three (or more) performance monitoring wells after the data associated with the expected gradual changes following startup are eliminated.

Operational control criteria for the south interception system will be developed for the appropriate indicator compounds (1,1,1-TCA and 1,1-DCA) from Table V-1 and will be equal to the lesser of: 1) the baseline concentration plus 15 percent of the Table IV-1 evaluation criteria or 2) 30 percent of the Table IV-1

* If the resulting concentration is below the Practical Quantitation Limit (PQL) for a Table I-1 constituent, the PQL reported for EPA Method 8010 (USEPA, "Test Methods for Evaluating Solid Waste," SW-846, 3rd Ed. 1986) will be used as the baseline concentration for that constituent.

evaluation criteria. If, after confirmation (as defined in Section V.A.2a) the average concentration in the three performance monitoring wells exceeds the operational control criteria, the County will re-evaluate the operation of the interception system. Should this re-evaluation indicate adjustments to the system are appropriate, the County will submit a proposal for interception system adjustment to the Government Plaintiffs for review and approval. Adjustments may include increasing pumping rates (for one or more wells), or other adjustments to the existing system considered appropriate for improving interception system efficiency.

Adjustment control criteria for the south interception system will be developed for the indicator compounds from Table V-1 and will be equal to the lesser of: 1) the baseline concentration plus 50 percent of the Table IV-1 evaluation criteria or 2) 65 percent of the Table IV-1 evaluation criteria.

If after confirmation (as defined in Section V.A.2a), the average concentration in the three designated downgradient monitoring wells exceeds the adjustment control criteria for two consecutive quarters (or some other mutually agreed-upon time-frame that will better allow reflection of system adjustments in downgradient monitoring wells) following system adjustment (as described previously for operational control criteria exceedances), the interception system will be modified. Additionally, the interception system will be modified if any individual downgradient performance monitoring well exceeds the Table IV-1 evaluation criteria for two consecutive quarters (or other time period, as described above). Modifications may include increasing pumping rates (for one or more wells), adding extraction wells to the system, or other methods of correcting interception system deficiencies. The County will submit a proposal for interception system modifications to the Government Plaintiffs for review and approval.

In addition to the operation and adjustment control criteria described above, should any downgradient performance monitoring well, following the development of baseline concentrations, exhibit anomalous concentrations or trends in concentrations that are inconsistent with effective interception system performance (such as an increasing trend in concentration projected to lead to a long-term exceedance of the Table V-1 adjustment control criteria), the County will evaluate the operation of the interception system. This evaluation will address the potential cause(s) of the anomaly and possible system adjustments or modifications (if appropriate), and will be presented to the Government Plaintiffs in a written report for their review within 60 days of evaluation.

Prior to establishing baseline concentrations, the operational and adjustment control criteria for the interception system will be the Table IV-1 evaluation criteria. These criteria will be applied on an individual basis to each downgradient interception system monitoring well.

If it is determined by the County that an exceedance of the above criteria is the result of supply well interference with the interception system, adjustment to, or modification to, the system will include elimination of the interference. Elimination of the interference may require either partial or complete cessation of supply well use. The County will attempt to negotiate a settlement with the well owner. If an equitable agreement cannot be reached between the County and the well owner, the Government Plaintiffs may use their statutory authority to seek termination of usage for the interfering well.

Based on cost effectiveness or a determination by the County that acceleration of the cleanup is appropriate, the County may, at its discretion, propose additional upgradient extraction wells. Any such proposal will be submitted to the Government Plaintiffs for review and approval.

If ground water withdrawn by an extraction well meets the operational control criteria for two consecutive quarterly samplings, water from this well will not require treatment prior to discharge. If a subsequently confirmed exceedance of the operational control criteria is identified, treatment of water from the extraction well will be resumed.

Operation of an extraction well may be discontinued if ground water from that well meets the adjustment control criteria. If shutdown of the well thereby occurs, the well will be sampled as described above in Section V.A.2a for monitoring wells. If a subsequently confirmed exceedance of the adjustment control criteria or an identified trend of increasing chemical concentrations occurs that is projected to lead to an exceedance of the adjustment control criteria, the extraction well will be reactivated.

If contaminant concentrations in ground water entering an extraction well decrease (confirmed as described in Section V.A.2a for exceedances) to levels below the Table IV-1 evaluation criteria, pulse pumping may be initiated at the discretion of the County. Procedures for pulse pumping, which are protective of human health and the environment, will be provided to the Government Plaintiffs for review and approval.

c. Treatment System -- A water treatment system utilizing air stripping, designed to treat water to comply with the Performance Standards, will be installed. The treatment system design will use data developed during the Phase I pilot program. A facilities plan will be developed by the County and provided to the Government Plaintiffs for review and approval. The County may, at its discretion, select treatment system performance goals which provide a higher discharge water quality than that identified by the Performance Standards. Compliance with applicable air emissions standards is addressed in Section V.D.

In the event that water discharged from the treatment system exceeds the Table IV-1 evaluation criteria, necessary improvements or operational adjustments will be accomplished by the County after review and approval by the Government Plaintiffs. In the event that the treatment system cannot meet the Table IV-1 evaluation criteria for methylene chloride, the Government Plaintiffs may apply less stringent evaluation criteria for this constituent. Indicated exceedances will be confirmed using the same methodology described for monitoring wells in Section V.A.2a.

d. Discharge -- Disposal of treated water will be in a manner that meets the Table IV-1 evaluation criteria. Options include discharge to the Little Spokane River, discharge to Deep Creek, or recharge to the shallow aquifer (either upgradient or downgradient of the interception system). Discharge to Deep Creek and recharge to the shallow aquifer will require the specific approval of the Government Plaintiffs. Plans for the discharge system will be submitted to the Government Plaintiffs for review and approval.

B. Extraction, Water Treatment, and Discharge - East System

1. Bases for Design --

a. Performance Standards for Ground Water -- The east ground water extraction system is intended for source control near the landfill site and not as an interception system.

b. Location of the East Source Control System -- The source control extraction system will be located based on information developed during Phase I pilot studies. Important considerations in placement of the extraction system will include concentrations and areal distributions of contaminants in the ground water; and hydrogeologic conditions such as saturated thickness of the aquifer(s), hydraulic conductivity, horizontal and vertical hydraulic gradients, and aquifer boundary conditions.

c. Treatment System -- The treatment system will be designed to meet the Performance Standards at the point of discharge from the treatment system. This design will be based on the maximum anticipated contaminant mass influent rate and treatment efficiency levels demonstrated during Phase I pilot testing. Compliance with applicable air emission standards is addressed in Section V.D.

d. Cost Effectiveness -- Design of the Phase II - East extraction/treatment/discharge system will also consider cost effectiveness. The extraction/treatment/discharge system must meet the Table IV-1 evaluation criteria with respect to treatment and discharge. The County may, at its discretion, either select proven technology or new technologies which more economically attain these criteria. The system plans will be submitted to the Government Plaintiffs for review and approval.

2. Design Components and Bases for Decision--

a. Monitoring -- The east extraction system is intended for source control and not plume interception. Consequently, no performance monitoring is required beyond that which is considered necessary by the County to evaluate treatment efficiency and to demonstrate the cost effectiveness of continued operation of the east system as a Remedial Action component for the lower aquifer(s). Phase I - East monitoring wells will be monitored at the discretion of the County.

In the event that monitoring wells upgradient of the extraction system, and outside its capture zone, show a consistent rise in contaminant concentrations that is likely to result in exceedance of the Table IV-1 evaluation criteria, additional upgradient (as previously defined) monitoring will be accomplished. The County will select the number and location of additional monitoring wells, subject to review and approval by the Government Plaintiffs. The County will determine if existing wells will be used or new monitoring wells will be installed.

The criteria presented in this section (V.B.2a) applies only to monitoring during system operation. This criteria is superseded, once the system is shut off, by the monitoring criteria described in Section X of this Scope of Work.

b. Source Control System -- The County will propose a source control system that includes six or more extraction wells. These wells will be installed to the north and to the east of the landfill site at locations exhibiting elevated contaminant concentrations and adequate hydrogeologic properties for sustained extraction at or near the flow rates set forth in the ROD. As presently envisioned by the County, the system will include at least three extraction wells to the north and three to the east of the landfill. The locations and flow rates of these wells will be determined by the County from Phase I study data and additional monitoring well data. The design for this system will be provided to the Government Plaintiffs for review and approval.

Based on the following criteria, the County may, at its discretion, expand the source control system beyond six extraction wells: aquifer yield; potential contaminant spreading induced by the addition of extraction wells; impact of increased contaminant mass loading to the treatment facility on meeting the Table IV-1 evaluation criteria; and system redundancy with respect to the west interception system and the objectives of the lower aquifer(s) Remedial Action.

Operation of an extraction well may be discontinued, upon approval of the Government Plaintiffs, if the well is not yielding, on a continuous basis, at least 50 percent (20 gpm) of the average discharge rate described in the ROD. If pumping is terminated for an extraction well, that well may, at the County's discretion, be included in the lower aquifer(s) monitoring program.

If deemed appropriate by the County, extraction wells may be subjected to pulse pumping rather than continuous pumping. Plans for pulse pumping will be submitted to the Government Plaintiffs for review and approval.

If ground water withdrawn by an extraction well meets the Table V-1 operational control criteria for two consecutive quarterly samplings, water from this well will not require treatment prior to discharge. If a subsequently confirmed exceedance of the operational control criteria is identified, treatment of water from the extraction well will be resumed.

Pumping may be discontinued from extraction wells if it is determined by the County, with review and approval by the Government Plaintiffs, that continued operation of the well(s) is no longer cost effective. Cost effectiveness will be evaluated based on the extent to which the extraction well(s) are achieving

the system goal of source control, and whether it is cost effective to extract contamination near the source rather than at the west interception system.

c. Treatment System -- A water treatment system utilizing air stripping, designed to treat water to comply with the Performance Standards, will be installed. The treatment system design will use data developed during the Phase I pilot program. A facilities plan will be developed by the County and provided to the Government Plaintiffs for review and approval. The County, at its discretion, may select treatment system performance goals which provide a higher discharge water quality than that identified by the Performance Standards. Compliance with applicable air emissions standards is addressed in Section V.D.

In the event that water discharged from the treatment system exceeds the Table IV-1 evaluation criteria, necessary improvements or operational adjustments will be accomplished by the County after review and approval by the Government Plaintiffs. Indicated exceedances will be confirmed by follow-up sampling and analysis using the same methodology described for monitoring wells in Section V.A.2.a.

In the event that the treatment system cannot meet the Table IV-1 evaluation criteria for methylene chloride, the Government Plaintiffs may apply less stringent evaluation criteria for this constituent. Indicated exceedances will be confirmed using the same methodology described for monitoring wells in Section V.A.2a.

d. Discharge -- Disposal of treated water will be in a manner that meets the Table IV-1 evaluation criteria. The County will choose the specific means of disposal; options include discharge to the Little Spokane River and recharge at or near the landfill site. The viability of treated water recharge at or near the landfill site will be evaluated by the County and may include consideration of cleanup acceleration resulting from contaminant flushing within the unsaturated zone, and the potential impact of increased contaminant loading on treatment system performance. If this evaluation confirms the viability of recharge, the County will submit a plan to the Government Plaintiffs for their review and approval.

C. Extraction, Water Treatment, and Discharge - West System

1. Bases for Design --

a. The goal of the west ground water interception system is to prevent the spread of contaminated ground water downgradient of the interception system. Both the Government Plaintiffs and County recognize that a higher level of protection is appropriate for that portion of the lower aquifer (downgradient of the interception system) within the zone of capture of existing supply wells, than for that portion of the aquifer downgradient of the interception system where contaminants can migrate directly to the Little Spokane River without impacting existing supply wells.

b. Location of the Interception System -- The ground water interception system will be located east of Highway 2 in proximity to the north-south alignment shown in the ROD.

c. Treatment System -- The treatment system will be designed to meet the Performance Standards at the point of discharge from the treatment system. This design will be based on the maximum anticipated contaminant mass influent rate and treatment efficiency levels demonstrated during Phase I pilot testing. Compliance with applicable air emission standards will be addressed during treatment system design in accordance with the provisions of Section V.D.

d. Cost Effectiveness -- Design of the Phase II interception/treatment/discharge system will also consider cost effectiveness. The minimum level of effort required for the west interception system is prevention of the spread of the constituents of concern at concentrations which exceed the evaluation criteria identified in Table IV-1. The treatment and discharge system must meet these evaluation criteria. The County, at its discretion, may either select proven technology or new technologies which more economically attain these criteria. The system plans will be submitted to the Government Plaintiffs for review and approval.

2. Design Components and Bases for Decision--

a. Monitoring -- A monitoring program will be instituted to evaluate the Phase II interception system performance. Two sets of monitoring wells will be included in the west interception system performance monitoring program. The first set (set A) of monitoring wells will be utilized for evaluation of interception system performance for those portions of the lower aquifer within the capture zone of existing supply wells located downgradient of the interception system, and will consist of three monitoring wells located directly upgradient of the existing supply wells. The second set (set B) of monitoring wells will be utilized for evaluation of interception system performance for those portions of the lower aquifer not directly impacting the water quality of the existing supply wells, and

will include three monitoring wells located downgradient of the interception system. Two additional monitoring wells placed at the outboard limit of the interception system will also be included in the interception system monitoring program. These outboard wells may also serve as extraction wells, if adjustment control criteria (as described in Section V.C.2b) are exceeded during monitoring.

The monitoring system may, at the discretion of the County, include new wells or, if appropriate, wells installed as part of the Phase I program. Phase I wells not included in the interception system performance monitoring program will be monitored at the County's discretion. A more extensive monitoring system may be proposed by the County if they determine that additional ground water monitoring is appropriate. Plans for additional monitoring would be provided to the Government Plaintiffs for review and approval.

Quarterly sampling and analysis will be conducted for each of the interception system monitoring wells, for the four indicator compounds shown in Table V-1 and discussed in Section V.A.2a, except the performance monitoring wells (sets A and B) will initially be sampled more frequently as subsequently described in Section V.C.2b. Quarterly sampling for each well will be continued until no exceedance of the Table V-1 adjustment control criteria is identified for twelve consecutive quarters. In the event that, for a particular well, no exceedances occur during the twelve quarters, sampling will be reduced to an annual frequency for the next two years. If no exceedances have been identified during this five-year period, the County will determine whether continued monitoring is appropriate based on the need to assure longer-term protection of purveyor wells near the site. If no exceedances occur in a particular monitoring well (or converted extraction well, as described in Section V.C.2b), but an increasing trend in concentrations is identified that would likely result in exceedance of the adjustment control criteria, the County will implement a longer-term sampling and analysis program that assures the protection of human health and the environment.

In the event that a single exceedance of the adjustment control criteria occurs, a follow-up sampling will be accomplished. An exceedance will be confirmed if concentrations exceeding the adjustment control criteria specified in Table V-1 are identified in three consecutive samples collected at two-week intervals. If an exceedance is confirmed, the Government Plaintiffs may require installation of additional monitoring wells or implementation of more extensive monitoring of existing wells. Further, the County will submit, for the Government Plaintiffs' review and approval, a program to address the exceedance. This program will include measures to protect human health and the environment.

The criteria presented in this section (V.C.2a) applies only to monitoring during system operation. While the interception

system is shut off and on standby status, this system operation criteria is superseded by the monitoring criteria described in Section X of this Scope of Work.

b. Interception System -- In order to meet the goals identified in Section V.A.1a, the County will accomplish the following:

- o Conduct the Phase I pilot studies to obtain the needed aquifer characteristics for designing an interception system.
- o Complete a preliminary design engineering report detailing the most probable aquifer characteristics, design parameters and project costs. The system will be designed utilizing capture zone analysis to achieve overlapping cones of depression, and such that the total pumping capability of the interception well system is sufficient to intercept the plume to the extent described in this section. Selection of pumping test methodologies and capture zone analysis will be subject to the review and approval of the Government Plaintiffs.

These extraction wells will be installed east of Highway 2 in proximity to the north-south alignment shown in the ROD. Extraction wells will be installed in succession from the center to the outermost limits of the plume. The spacing of the wells will be determined by the County based on hydrogeologic and chemical data. Extraction wells will be installed until the ground water at the outermost limits of the system is below the adjustment control criteria. The outermost wells will be used for interception system monitoring and will be constructed such that conversion to extraction wells is possible if exceedances of adjustment control criteria are subsequently identified. If an outboard monitoring well is converted to an extraction well, an additional monitoring well (constructed for possible conversion to an extraction well) will be constructed to the outside of the converted monitoring/extraction well.

Interception system design criteria will be based on the Table I-1 Performance Standards. Operational and adjustment criteria will be developed based on Table IV-1 evaluation criteria and observed interception system efficiency during the early stages of Phase II.

The design criteria will serve as a guide for the use of the capture analysis referred to in this section. The basis for design of that portion of the west system that intercepts ground water migrating into the capture zone(s) of existing downgradient supply wells will be that the average concentrations of the constituents of concern in the existing supply wells downgradient of the interception system are predicted to be no greater than 15 percent of the Table I-1 Performance Standards based on capture

zone analysis. The remainder of the system will be designed such that the average concentrations of constituents of concern in the lower aquifer downgradient of the interception system will be no greater than 50 percent of the Table I-1 Performance Standards.

Commencing at a mutually agreed-upon time following startup of the interception system, the two sets (A and B) of downgradient performance monitoring wells will be sampled monthly (for Table V-1 constituents) for two years, or some other mutually agreed-upon length of time. Based on statistical analysis of the chemical data from these wells, separate baseline concentrations* will be identified for each set (A and B) of downgradient performance monitoring wells for each Table V-1 constituent. The baseline concentrations for each set (A and B) of monitoring wells will be equal to the average of the time-averaged concentrations in the three performance monitoring wells associated with that set and, if appropriate, may include vertical averaging for nested wells or well clusters, after the data associated with the expected gradual changes following startup are eliminated.

Operational control criteria for the west interception system will be developed for the appropriate Table V-1 indicator compounds (1,1-TCA and 1,1-DCA) and will only apply to that portion of the system intercepting ground water migrating towards existing downgradient supply well capture zones and will be equal to the lesser of: 1) the baseline concentration based on the "A" set of monitoring wells plus 15 percent of the Table IV-1 evaluation criteria or 2) 30 percent of the Table IV-1 evaluation criteria. If, after confirmation (as defined in Section V.A.2a) the average concentration in the "A" set of performance monitoring wells exceeds the operational control criteria, the County will re-evaluate the operation of the interception system. Should this re-evaluation indicate adjustments to the system are appropriate, the County will submit a proposal for interception system adjustment to the Government Plaintiffs for review and approval. Adjustments may include increasing pumping rates (for one or more wells), or other adjustments to the existing system considered appropriate for improving contaminant interception efficiency.

Adjustment control criteria for the west interception system will be developed for the Table V-1 indicator compounds and will be equal to the lesser of: 1) the baseline concentration (for set "A" or "B monitoring wells", as appropriate) plus 50 percent of the Table IV-1 evaluation criteria or 2) 65 percent of the Table IV-1 evaluation criteria.

* If the resulting concentration is below the Practical Quantitation Limit (PQL) for a Table I-1 constituent, the PQL reported for EPA Method 8010 (USEPA, "Test Methods for Evaluating Solid Waste," SW-846, 3rd Ed. 1986) will be used as the baseline concentration for that constituent.

If after confirmation (as defined in Section V.A.2a), the average concentration in either the "A" or "B" sets of downgradient monitoring wells exceeds the adjustment control criteria for two consecutive quarters (or some other mutually agreed upon timeframe that will better allow reflection of system adjustments in downgradient monitoring wells) following system adjustment (as described previously for operational control criteria exceedances), the interception system will be modified if applicable. Additionally, the interception system will be modified if any Set "A" individual downgradient performance monitoring well exceeds the Table IV-1 evaluation criteria for two consecutive quarters (or other time period, as described above). Modifications may include increasing pumping rates (for one or more wells), adding extraction wells to the system, or other methods of correcting interception system deficiencies. The County will submit a proposal for interception system modification to the Government Plaintiffs for review and approval.

In addition to the operation and adjustment control criteria described above, should any set "A" downgradient performance monitoring well, following the development of baseline concentrations, exhibit anomalous concentrations or trends in concentrations inconsistent with effective interception system performance (such as an increasing trend in concentration projected to lead to a long-term exceedance of the Table V-1 adjustment control criteria), the County will evaluate the operation of the interception system. This evaluation will address the potential cause(s) of the anomaly and possible system adjustments or modifications (if appropriate), and will be presented to the Government Plaintiffs in a written report for their review within 60 days of the evaluation.

If it is determined by the County that an exceedance of the above criteria is the result of supply well interference with the interception system, adjustment to, or modification to, the system may include elimination of the interference. Elimination of the interference may require either partial or complete cessation of supply well use. The County will attempt to negotiate a settlement with the well owner. If an equitable agreement cannot be reached between the County and the well owner, the Government Plaintiffs will use their statutory authority to seek termination of usage for the interfering well.

Based on cost effectiveness or a determination by the County that acceleration of the cleanup is appropriate, the County may, at its discretion, propose additional upgradient extraction wells. Any such proposal will be submitted to the Government Plaintiffs for review and approval.

If ground water withdrawn by an extraction well meets the operational control criteria for two consecutive quarterly samplings, water from this well will not require treatment prior to discharge. If a subsequently confirmed exceedance of the operational control criteria is identified, treatment of water from the extraction well will be resumed.

Operation of an extraction well may be discontinued if ground water at that well meets the adjustment control criteria. If shutdown of the well thereby occurs, the well will be sampled as described above in Section V.C.2a for monitoring wells. If a subsequently confirmed exceedance, or an identified trend of increasing chemical concentrations occurs that can be projected to lead to an exceedance, of the adjustment control criteria at downgradient supply wells, reactivation of the extraction well may be necessary.

If concentrations in ground water entering an extraction well decrease (confirmed as described in Section V.B.2a for exceedances) to levels below the Table IV-1 evaluation criteria, pulse pumping may be initiated at the discretion of the County. Procedures for pulse pumping, which are protective of human health and the environment, will be provided to the Government Plaintiffs for review and approval.

c. Treatment System -- A water treatment system utilizing air stripping, designed to treat water to comply with the Performance Standards, will be installed. The treatment system design will use data developed during the Phase I pilot program.

If water discharged from the treatment system exceeds the Table IV-1 evaluation criteria, necessary improvements or operational adjustments will be accomplished by the County after review and approval by the Government Plaintiffs. In the event that the treatment system cannot meet the Table IV-1 evaluation criteria for methylene chloride, the Government Plaintiffs may apply less stringent evaluation criteria for this constituent. Indicated exceedances will be confirmed using the same methodology described for monitoring wells in Section V.C.2a.

A gravity air stripping system, which takes advantage of the elevation drop between the bluff near Highway 2 and the Little Spokane River may be installed, if Phase I pilot system test results indicate this method will meet Table IV-1 evaluation criteria. If, based on the criteria identified in Section V.D., off-gas treatment is required, a conventional air stripping system will be installed.

d. Discharge -- Disposal of treated water will be to the Little Spokane River. Discharge water will meet the Table IV-1 evaluation criteria. Plans for the discharge system will be submitted to the Government Plaintiffs for review and approval.

D. Air Emissions Abatement

The necessity for air stripping tower off-gas abatement during Phase II will be evaluated based on the assessment of lifetime cancer risk for carcinogenic compounds, and on hazard indices for non-carcinogenic compounds, in accordance with methods described in the Superfund Public Health Evaluation Manual (EPA 54011-86/060, 1986). Phase I data, and the criteria described below, will be used in these evaluations during Phase I. Additional data developed during the early stages of Phase II will be used to reassess the Phase I evaluation. If the County can demonstrate to the Government Plaintiffs that the lifetime cancer risks and the hazard indices are below 10^{-6} and 1, respectively, off-gas treatment will not be required.

A preliminary analysis of air emissions for the Table I-1 compounds has been accomplished using a standard Gaussian plume model and 100 percent transfer efficiency (water to air media). The analysis considered receptor distances of 500 and 1000 feet, a stack height of 40 feet, and assumed that all water treatment would be accomplished at one location. The analysis used National Weather Service Wind Data for the Spokane International Airport and an initial mass flux to the stripping towers equal to that arrived at from the projected influent concentrations and pumping rates identified in the RI/FS. It was further assumed that the total mass of each constituent removed during the clean-up could be equal to as much as 5 times the mass of each constituent identified as being present in the ground water, based on the data contained in the RI/FS.

Based on these assumptions, the model predicts that for the carcinogenic and potential carcinogenic compounds (TCE, DCE, PCE, and MC) the summation of the incremental increases in cancer risk for the individual compounds is below 10^{-6} (1 in 1 million), and the hazard index summation for all Table I-1 non-carcinogenic compounds is below 1. Because the analysis utilized some assumptions which have not been fully confirmed at the site, the following verification steps will be taken:

1. Air monitoring and modeling will be conducted during Phase I to confirm the wind speed, wind direction, and applicability of the Gaussian model. If the County determines that air emissions can be better analyzed using a different model, the proposed model, and rationale for its use, will be submitted to the Government Plaintiffs for review and approval.
2. Phase I and Phase II data will be evaluated to estimate the total mass of the six indicator constituents present in the ground water.
3. Measurements will be made during Phase I and the early stages of Phase II to identify the mass flux of the six

indicator constituents to the stripping tower(s). These data will be compared with the flux rates identified in the RI/FS.

If the new information supports the initial analysis, air stripping tower off-gas abatement will not be required.

If the Phase I data does not support the initial analysis, the County will re-examine the need for Phase II off-gas treatment. This re-examination will be accomplished prior to Phase II and presented to the Government Plaintiffs for their review and approval. Should this re-examination identify that off-gas treatment is necessary on either a temporary or permanent basis, based on the criteria described above, the County will make the appropriate adjustments to incorporate carbon absorption, or some other agreed-upon method of air emissions abatement, in the stripping tower design for Phase II.

Air emissions abatement will be re-evaluated during the early stages of Phase II (within a year of Phase II startup). If the Phase II data do not support the Phase I analysis, the County will re-examine the need for off-gas treatment within 60 days of re-evaluation and submit such re-examination to the Government Plaintiffs for review and approval. Should this re-examination identify that off-gas treatment is necessary on either a temporary or permanent basis, based on the criteria described above, the County will retrofit the stripping tower(s) with carbon absorption, or some other agreed-upon method of air emissions abatement. Alternately, should this re-examination identify that off-gas treatment is no longer necessary (if required following Phase I analysis), off-gas treatment may be terminated.

VI

LANDFILL CLOSURE

The Colbert Landfill will be closed by Spokane County to meet the goals and objectives of the State Minimum Functional Standards (WAC 173-304) for landfill closure, including regrading, ground water and gas monitoring, capping, and post-closure maintenance. The primary purposes of the cap are to: reduce the potential for infiltration and, thus, reduce the rate of leachate generation; address vector control; and restrict human access. The Minimum Functional Standards normally require at least 2 feet of 1×10^{-6} cm/sec or lower permeability soil or equivalent to be used for the cap. An artificial impermeable membrane, at least 50 mils thick, may be substituted for the soil cover.

Although a low permeability cap is generally beneficial for closure of municipal landfills, such a cap may reduce the migration of contaminants to the interception system(s), and thereby impede the performance of the Remedial Action. Section 173-304-700 of the Minimum Functional Standards provides for the jurisdictional health department to grant variances from landfill closure requirements for those situations where compliance with the regulation would be detrimental without equal or greater benefit to the public. Spokane County will have the option to appeal to the Spokane County Health District to defer or eliminate the need for the low-permeability cap. The County will, at a minimum, maintain a sufficient soil cover to address vector control and restrict human access to the solid waste.

The County shall develop a covenant to be filed on record restricting the use of Colbert Landfill so as not to impair the functioning of any cover that may be placed on the landfill. The covenant shall be reviewed and approved by the Government Plaintiffs.

VII

DOMESTIC WELL MONITORING

Monitoring of domestic wells in the vicinity of the Colbert Landfill will be conducted to evaluate the progress of the Remedial Action and to identify wells that exceed Performance Standards, so that alternative drinking water supplies may be provided (see Section VIII - Alternative Water Supply). The domestic well monitoring program described in this section is a continuation of the domestic well sampling program currently being accomplished by the County. This program is being conducted under the review of the Colbert Landfill Ground Water Sampling Committee.

SAMPLING AND ANALYSIS PROCEDURES

The ground water sampling and analysis procedures for domestic well monitoring will be those in use by the Colbert Landfill Ground Water Sampling Committee at the date of entry of this Consent Decree. Changes to these sampling and analysis procedures will not be made without the approval of this committee and the County. Any changes will be submitted to the Government Plaintiffs for their concurrence.

SAMPLING FREQUENCY

Ground water samples, at a minimum, will be collected annually from all wells included in the domestic well monitoring program. More frequent samples may be collected from selected wells at the discretion of Colbert Landfill Ground Water Sampling Committee and the County. If concentrations in any well exceed Performance Standards, that residence will be evaluated for an alternative water supply in accordance with Section VIII (Alternative Water Supply) of this Scope of Work. Sampling of a water supply well may be discontinued or reduced by the County if:

1. An alternative water supply has been provided for that residence;
2. The Colbert Landfill Ground Water Sampling Committee determines that the supply well is not threatened by contamination from the Colbert Landfill site;
3. Remedial Actions have been demonstrated to be complete.

VIII

ALTERNATIVE WATER SUPPLY

If any compound originating from the site is identified in any domestic water supply well in use prior to the date of entry of this Consent Decree at a concentration exceeding the Performance Standards, a new sample shall be taken by the County within one week of receipt of the analysis of the first sample. The new sample shall be analyzed on an expedited schedule. If the second sample confirms that the concentrations exceed Performance Standards, the County will promptly provide an alternative drinking water supply source to the residence. At the County's discretion, the new water supply may include, but is not limited to, either bottled water (on an interim basis) or connection of the affected residence to the Whitworth Water Supply System or an approved Class IV system. The County shall be responsible only to provide a drinking water supply to those impacted residences in an amount equal to the drinking water supply standards for residences established by the Department of Social and Health Services in effect at the time of entry of this Consent Decree, or the annual average production of the well, whichever is less.

If any compound originating from the site is identified in any domestic water supply well in use prior to the date of entry of this Consent Decree at a concentration exceeding 65 percent of the Table IV-1 evaluation criteria, a new sample shall be taken by the County within one month of receipt of analysis of the first sample. The new sample shall be analyzed within one month. If the second sample confirms that the concentration exceeds the 65 percent level, that supply well shall be placed on a sampling frequency of once every month for a period of one year. The confirming sample and subsequent monthly samples (if required) will be analyzed in accordance with the procedures set forth in the applicable (Phase I or Phase II) ground water monitoring work plan.

If the average concentration over that 12 month period exceeds 65 percent of any of the Table IV-1 evaluation criteria, the County will provide an alternate water supply to that residence. If the average concentration is below the 65 percent level, that well may be returned to the regular monitoring schedule. Without admitting any legal obligation to do so, the County will provide an alternate water supply to the following residences, if desired: D. Ackerman, C. Costello, J. Moffatt, E. Roseberry, and A. Turner.

In the event that operation of the Remedial Action adversely impacts the yield of supply wells in use prior to the date of entry of this Consent Decree, the County will mitigate the impact. For this purpose, adverse impact is defined as a reduction in water supply to levels below the lesser of:

1. The discharge rate and total allowable annual volume defined by a valid water right, filed with the State of Washington prior to entering of this Consent Decree.

If water is being used without a valid water right, the user will only be entitled to mitigation with respect to the quantity defined by the laws of the State of Washington as being exempt from the filing requirements.

2. The capacity of the supply well in gallons per day.

In order to require the County to mitigate such adverse impacts, the following conditions must be met:

1. Access to the impacted well must be granted by the property owner to the County prior to and during the implementation of the Remedial Action. The County may, at its discretion: a) monitor water level elevations within the well; b) measure the well depth; c) accomplish a well capacity test; and/or d) accomplish any other tasks, procedures or tests deemed appropriate by the County or required by the Government Plaintiffs to evaluate the possible future impact of the Remedial Action.
2. In the event that the County chooses not to monitor a well and a claim is subsequently made by the property owner alleging adverse impact by the Remedial Action, the owner may be requested to sign an affidavit detailing the extent of the impact.

If it is determined that a supply well has been adversely impacted by the Remedial Action, the County may, at their discretion, elect to take any of the following actions:

1. Provide an alternative water supply;
2. Modify the operation of the extraction wells;
3. Modify the supply well system. Modifications may include repositioning of the pump or the addition of a pressurized storage tank;
4. Construct a new well to supplement the existing well;
or
5. Exercise any other reasonable action acceptable to the well owner and the County.

Nothing in this Consent Decree shall be construed to mean that the County is responsible to the Whitworth Water District or any other water system owner, either public or private, for costs

in excess of those required to provide the above connections. Excess costs include fire flow; storage requirements; and oversizing the system to provide service to non-effected properties.

Nothing in this Consent Decree will prohibit the County from negotiating a written release with the property owner regarding any claims of inverse condemnation and/or diminished property value due to adverse impact on yield or as a result of the existence of contamination at levels exceeding the Table I-1 Performance Standards.

IX .

INSTITUTIONAL CONTROLS

The County shall, to the degree authorized by law, implement institutional controls to prevent human access to the Colbert Landfill until such time as the local jurisdictional health department considers such access to be acceptable. The state may implement institutional controls to prevent installation of purveyor wells in areas and at depths known to be contaminated, where such newly installed wells are likely to cause the spread of contamination, or where such wells are likely to impede Remedial Activities.

PERFORMANCE CRITERIA

In accordance with the ROD, ground water extraction will continue until all wells in contaminated zones show that the ground water consistently meets health protection levels. Health protection levels will be those Performance Standards identified in Table I-1 of this Scope of Work. The County will notify the Government Plaintiffs that they have met the Performance Standards prior to ceasing ground water extraction, pumping, and treatment from the interception systems. The County's notification to discontinue pumping and treatment shall include a demonstration, based on the monitoring results described below, that the Performance Standards in Table I-1 shall be met on a permanent basis. Because the east system is intended for source control, the continued operation of this system will be at the County's discretion.

Monitoring wells installed during Phase I that are not part of an interception system monitoring program may be included in this demonstration. If included, Phase I - West and East monitoring wells will be assigned to the west interception system, and Phase I - South monitoring wells will be assigned to the south interception system. At some time in the future, additional monitoring wells may be installed upgradient of the interception system(s) to help assess completion of Remedial Action. If additional upgradient wells are required, the number, location and design of these wells will be mutually determined at the appropriate time by the Government Plaintiffs and County.

Operation and maintenance of each extraction/treatment and discharge system will continue until the ground water at each monitoring well assigned to that system (as defined in Section V and supplemented in the previous paragraph) meets the Performance Standards for four consecutive quarterly samplings. If four consecutive quarterly samplings of these monitoring wells all show the ground water to meet the Performance Standards at each assigned monitoring well, the County may, at its discretion, place that interception system on standby status. Standby extraction wells will become monitoring wells. Quarterly sampling and analysis of these monitoring wells will continue for a period of three years. If, during these three years of monitoring, the ground water at each monitoring well continues to meet the Performance Standards, the County may, at its discretion, deactivate the associated extraction and treatment system. In the event that an exceedance of the Performance Standards occurs, a follow-up sample will be collected. An exceedance will be confirmed if chemical constituent levels exceeding the Performance Standards are identified in three consecutive samples collected at two-week intervals. If a confirmed exceedance occurs, the appropriate portion of the associated interception and treatment system will be placed in operation until such time as the standby status criteria is achieved again.

After termination of standby status for each interception system, the County will continue to monitor all accessible supply wells, which have previously exhibited confirmed contamination at levels exceeding the Performance Standards, once per year for an additional five years. All monitoring, and all other obligations of the County under this Consent Decree, will cease when the ground water in all monitoring wells consistently meets the Performance Standards for this final five-year period.

If trends in ground water monitoring data indicate that the length of time required to meet the Performance Standards will be significantly longer than that reported in the RI/FS, the County may petition the Government Plaintiffs for less stringent Performance Standards.

XI

SCHEDULE

A schedule for submission of detailed work plans and additional documentation shall be submitted by the County no later than two (2) months from entry of the Consent Decree. Upon the Government Plaintiffs' approval, the schedule shall be submitted to the Court and become a part of the Consent Decree. The schedule shall identify specifically when work plans for Phase I, the Health and Safety Plan, the Quality Assurance Project Plan, the Phase I Engineering Report, and Phase I progress reports shall be delivered. It shall also describe the basis for establishing a schedule for the Phase II work plans, Landfill Closure Plan, Alternative Water Supply Plan, Plan for Institutional Controls, Phase II Plans and Specifications, Phase II Construction Documentation Report, and Phase II progress reports.

Specifically, the schedule shall address the following work plans:

- o Health and Safety Plan;
- o Quality Assurance Project Plan;
- o Phase I Pilot Well Plan;
- o Phase I Ground Water Monitoring Plan;
- o Phase I Treatment and Discharge Plan;
- o Phase II Extraction Well Plan;
- o Phase II Ground Water Monitoring Plan;
- o Phase II Treatment and Discharge Plan;
- o Landfill Closure Plan;
- o Alternative Water Supply Plan; and
- o Plan for Institutional Controls;

and the following additional documentation:

- o Phase I Engineering Report;
- o Phase II Plans and Specifications;
- o Phase I and Phase II Progress Reports; and
- o Phase II Construction Documentation Report.

APPENDIX "C"

COLBERT LANDFILL TRUST FUND

THIS DECLARATION OF TRUST, dated this _____ day of _____, 1988, is made and entered into by and among SPOKANE COUNTY ("Settlor"), and WASHINGTON TRUST BANK ("Trustee"), pursuant to the Agreements on Consent to Implement Focused Corrective Action Measures pursuant to State of Washington, Department of Ecology, and United States Environmental Protection Agency v. Key Tronic, Inc., and Spokane County, No. _____ and State of Washington, Department of Ecology v. United States Air Force, No. _____ (the "Consent Agreements").

WITNESSETH:

WHEREAS, UNITED STATES AIR FORCE has agreed to transfer, assign, and convey unto the Trustee the sum of One Million Four Hundred Fifty Thousand Dollars (\$1,450,000.00) in trust, pursuant to the terms of this Agreement; and

WHEREAS, KEY TRONIC, INC., a Washington corporation, has agreed to transfer, assign, and convey unto the Trustee the sum of Four Million Two Hundred Thousand Dollars (\$4,200,000.00) in trust, pursuant to the terms of the Consent Agreements; and

WHEREAS, funds transferred by UNITED STATES AIR FORCE and KEY TRONIC, INC., a Washington corporation, shall constitute the initial corpus of the trust hereby created and shall be held, invested, and distributed pursuant to the terms of this Agreement, it is therefore agreed as follows:

I. Trust Estate. The Trust Estate, as that term is used in this trust, shall consist of the following:

1. The assets transferred to the Trustee by UNITED STATES AIR FORCE and KEY TRONIC, INC., a Washington corporation, as hereinabove provided; and

2. Any funds transferred to the Trustee by any other person or entity; and

3. The proceeds, investments, and reinvestments of the assets so transferred to the Trustee.

II. Trust Purpose. The Trustee shall hold, invest, reinvest, and distribute the Trust Estate, as Trustee, in accordance with the terms and conditions set forth herein. This trust is organized and shall be operated to provide a source of funds for the purpose of paying for the remedial action referenced in the Consent Agreements. In furtherance of this purpose, the Director of the Department of Ecology, hereinafter referred to as the "Director" has sole power to direct the Trustee and the distribution of the Trust Estate in the manner hereinafter provided for.

III. Distributions. The Trust Estate shall be distributed by the Trustee from time to time as directed by the Director pursuant to the Consent Agreements. The Trustee may rely with acquittance upon any direction of payment made pursuant to the Consent Agreements.

IV. Duration. This trust shall continue until the earlier of the issuance of a Certificate of Completion to SPOKANE COUNTY pursuant to the provisions of Section XXX of the Consent Agreements, or until the Trust Estate has been distributed for the activities and purposes set forth herein. If the Trust Estate has not been wholly distributed prior to the earliest date referred to in the first sentence of this paragraph, and there has not been a direction to distribute funds pursuant to Consent Agreements which will exhaust the funds, then all such remaining unappointed funds shall be delivered forthwith one-half (1/2) to the State of Washington, Department of Ecology, and one-half (1/2) to the United States Environmental Protection Agency.

V. Irrevocable Nature of Trust. The trust created by this Agreement shall be deemed irrevocable and the Settlor shall have no right whatsoever to alter, amend, revoke, or terminate this Trust Agreement in whole or in part. Further, it is the intention of KEY TRONIC, INC., a Washington corporation, and UNITED STATES AIR FORCE to transfer all of their interest in the Trust Estate transferred to the Trustee herein. Therefore, UNITED STATES AIR FORCE and KEY TRONIC, INC., a Washington corporation, and any other person or entity transferring assets to the Trustee hereunder, do hereby assign to the Trustee all right, title, and interest in and to the

Trust Estate and relinquish all administrative power over the Trust Estate or any power to control the beneficial enjoyment of the trust assets.

VI. Trustee. It is hereby directed to invest and reinvest the trust assets and such property as it from time to time deems prudent. Provided, however, that the Trustee's power to invest the trust assets shall be limited in the same manner as the ability of persons investing funds on behalf of municipalities within the State of Washington is limited pursuant to RCW 36.29.020 et seq.

VII. Powers and Duties of Trustee. Except as specifically restricted hereunder, the Trustee shall have all duties, powers, and rights imposed and granted by the laws of the State of Washington.

In addition to the duties, powers, and rights imposed and granted by law, the Trustee shall have (unless specifically restricted herein) the power and the exercise of discretion in the application thereof to:

1. Determine the allocation of receipts and expenses between income and principal in accordance with the Washington Principal and Income Act;
2. Rely with acquittance upon the advice of counsel on questions of law;
3. Merge or combine any trusts hereunder with the trust or trusts otherwise established for the same purpose and substantially the same provisions, and thereafter administer and distribute such combined estate as one;
4. Appoint an ancillary trustee or agent to facilitate the management of assets located in another state, if any;
5. At any time to resign as Trustee of the trust created by this instrument without court proceeding, by delivering written notice of resignation as hereinafter provided;
6. To commence or defend at the expense of the trust such litigation with respect to the trust or any property of the trust as the Trustee may deem advisable;

7. Compromise, submit to arbitration, release with or without consideration, and otherwise adjust any claims in favor of or against the trust.

VIII. Resignation. The Trustee shall have the right to resign at any time by delivering its resignation in writing to the Settlor, such resignation to take effect upon the acceptance of appointment in writing by successor Trustee. Upon any such resignation, the Settlor shall deliver to the Director a copy of the Letter of Resignation, together with a letter proposing to appoint a successor Trustee. Provided, however, any successor Trustee shall be a corporation authorized to conduct trust business within the State of Washington and at the time of its appointment have assets of not less than One Hundred Million Dollars (\$100,000,000.00) of trust funds.

Upon the approval of successor Trustee by the Director, the Settlor shall in writing appoint a successor Trustee. Acceptance of appointment of successor Trustee shall be in writing and shall become effective upon receipt by the Settlor of the notice of such acceptance.

Any successor Trustee appointed under this article shall, upon appointment, immediately succeed to all powers, rights, discretions, obligations, and immunities of the Trustee under this Agreement with the same effect as though successor Trustee were originally named as Trustee in this Agreement.

IX. Compensation. The Trustee shall be entitled to be paid reasonable compensation as agreed upon by the Settlor and the Trustee.

X. Governing Law. This Trust Agreement shall be administered, construed, and enforced according to the laws of the State of Washington. Should any provision of this Agreement be or become invalid or unenforceable, the remaining provisions of this Agreement shall be and continue to be fully effective.

XI. Notices. Any notices or other communication required or permitted by this Agreement to be delivered to or served on the Trustee shall be deemed properly delivered to, or serve on, and received by the Trustee when personally delivered to a trust

officer of the Trustee, or in lieu of such personal service, when deposited in the United States mail, certified mail with postage prepaid, addressed to the trustee at West 717 Sprague Avenue, Spokane, Washington 99204 (Attention Trust Department).

Any notices or other communications required or permitted by this Agreement to be delivered to or served on the Department of Ecology shall be deemed properly delivered to, or served on, and received by the Department of Ecology when deposited in the United States mail, certified mail with postage prepaid, addressed to the Director, Department of Ecology, Mailstop PV-11, Olympia, Washington 98504, or its designate.

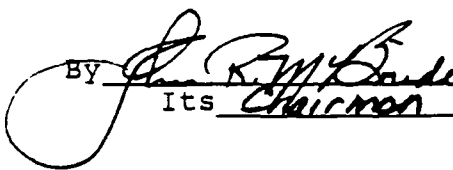
Executed on the ____ day of _____, 1988, at Spokane, County, Washington.

SPOKANE COUNTY

WASHINGTON TRUST BANK

BY

Its


Chairman

"Settlor"

By

Its

"Trustee"

APPENDIX "D"

REQUEST FOR
FUNDING PREAUTHORIZATION FOR
THE HAZARDOUS SUBSTANCE RESPONSE
TRUST FUND BY
SPOKANE COUNTY FOR THE
COLBERT LANDFILL REMEDIAL ACTION

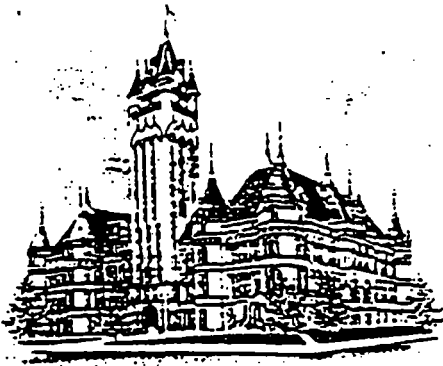
Prepared for

Environmental Protection Agency

Prepared by

Spokane County

September 12, 1988



SPOKANE COUNTY COURT HOUSE

SPOKANE COUNTY

OFFICE OF

PUBLIC WORKS DEPARTMENT

DENNIS M. SCOTT, P.E.
DIRECTOR OF PUBLIC WORKS

(509) 456-3600
NORTH 811 JEFFERSON STREET
SPOKANE, WASHINGTON 99260-0180

September 9, 1988

Office of Emergency and Remedial Response
MIS: WR-548
U.S. Environmental Protection Agency
401 "M" Street S.W.
Washington, D.C. 20460

Attention: Mr. Henry L. Longest, II, Director

RE: Colbert Landfill
Request for Preauthorization

Gentlemen:

Spokane County is filing this request for preauthorization for cost recovery related to the Colbert Landfill remedial action in Spokane County, Washington. The County would like to thank Mr. Bill Ross of your Washington, D.C., office for his guidance during preparation of this request.

Spokane County's request for preauthorization (for mixed funding) is for \$1,400,000, or approximately 10 percent of the estimated cost of remediation for the Colbert Landfill Superfund site. To date, a Consent Decree (Appendix B) has been agreed to in principle. This draft Consent Decree includes a Scope of Work (Appendix C), which provides a detailed framework for implementation of the remedial action based on the EPA-selected remedy (as described in the Record of Decision [Appendix A]). The Consent Decree will be lodged following approval of Spokane County's request for preauthorization.

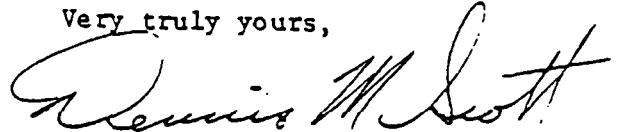
Spokane County intends to implement the Colbert Landfill remedial action using a design consultant and a contractor for project design and construction, respectively. As documented herein, the consultant and contractor selection process will be free and open, and will be structured such that the selected firms will have the capability, knowledge and understanding to successfully complete the remedial action. Spokane County has managed a number of large construction

Office of Emergency and Remedial Response
Attn: Mr. Henry L. Longest, II
September 9, 1988
Page Two

projects, including some larger than the Colbert Landfill remediation, and intends on utilizing this management expertise during implementation of the remedial action.

We trust that you will find this request for preauthorization complete. However, please advise us if you have any additional information requirements.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Dennis M. Scott". The signature is fluid and cursive, with a large initial "D" and a stylized "S".

Dennis M. Scott, P.E.
Director of Public Works

DMS:sla/0203o
Attachments

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REQUEST FOR FUNDING PREAUTHORIZATION FOR THE
HAZARDOUS SUBSTANCE RESPONSE TRUST FUND BY
SPOKANE COUNTY FOR THE
COLBERT LANDFILL REMEDIAL ACTION

Section 111(a)(2) and 122(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), authorizes the Hazardous Substance Response Trust Fund (Fund) to reimburse potentially responsible parties (PRPs) for costs incurred as a result of carrying out the National Contingency Plan (NCP). In order to qualify for reimbursement, the requesting party must seek and obtain prior approval (preauthorization) from the Environmental Protection Agency (EPA) administrator for the proposed remedial action. Spokane County is a PRP eligible under Section 111(a)(2) of the CERCLA, 42 U.S.C. 9611(a)(2), for reimbursement of "necessary response costs incurred...as a result of carrying out the National Contingency Plan." To fulfill the requirements for reimbursement, Spokane County is filing this request for preauthorization for cost recovery from the Fund related to the Colbert Landfill remediation. This request is for \$1,400,000, which represents approximately 10 percent of estimated design, construction, and startup costs for this action. This amount has been mutually agreed upon between EPA and Spokane County, and is intended to cover the remediation costs of the non-settling PRPs.

INTRODUCTION AND SITE DESCRIPTION

The Colbert Landfill is an inactive sanitary landfill located in northeastern Washington approximately 15 miles north-northeast of the City of Spokane. Situated in the southeast corner of

Section 3, Township 27 North, Range 43 East, W.M., the landfill covers 40 acres. It is about two and one-half miles north of the Town of Colbert and one-half mile east of U.S. Highway 2 (Newport Highway) in the northwestern quadrant of the intersection of Elk-Chattaroy, Yale, and Big Meadows Roads. Owned and operated by Spokane County (The County), the Colbert Landfill opened in 1968 and received both municipal and commercial wastes until 1986. The landfill is now filled to capacity and is no longer receiving wastes.

The remedial action site, the area of potential impact surrounding and including the landfill, extends north of the landfill about one-half mile, west about one mile to the Little Spokane River, east a similar distance, and south approximately five miles to Peone Creek (also known as Deadman Creek). The total remedial action area is approximately 6800 acres and includes parts of Sections 2, 3, 10, 11, 14, 15, 16, 21, 22, 23, 26, 27, 28, 33, 34, and 35 in T 27 N, R 43 E. The site is located on a plateau bounded by steep bluffs on the west and low granite and basalt hills to the east. Surface drainage is west to the Little Spokane River. The climate is characteristic of eastern Washington, with temperatures ranging from typical average summer highs of about 83° F to average winter lows of around 23° F. The relatively low annual precipitation of approximately 17 inches falls mainly during the winter months of November through February (NOAA 1985).

The geology of the site consists of a series of glacially-derived materials deposited on an eroded landscape of clays, basaltic lava flows, and granitic bedrock. The stratigraphic

units (layers) as described in the Remedial Investigation (RI) (Golder Associates, Inc., 1987), from youngest to oldest (i.e., from the top down), are:

- Unit A. Glacial outwash/Missoula flood sands/gravels;
- Unit B. Glacial Lake Columbia lacustrine silts/clays;
- Unit C. Older glaciofluvial and/or alluvial sands/gravels;
- Unit D. Weathered basalts and Latah (landslide deposits);
- Unit E. Unweathered Latah silts/clays;
- Unit F. Granite bedrock.

This specific geologic system can be hydrogeologically defined as containing three aquifers and three aquitards. There is an aquifer associated with Unit A, the glacial outwash/Missoula flood deposits, which is designated as the upper sand/gravel aquifer. Unit B, the lacustrine silts/clays stratum, is a relatively impermeable layer which acts as an aquitard. The second aquifer, located in Unit C, the older glaciofluvial and/or alluvial deposits, is called the lower sand/gravel aquifer. The weathered zone of the basalts and Latah, Unit D, may be considered an extension of the lower aquifer. The unweathered Latah silts/clays, Unit E, serves as the second aquitard. The upper fractured zone of the granite, Unit F, is capable of water transmission and, although a poor producer in most areas, it could be considered as an aquifer while the deeper, less fractured portions of the bedrock serve as the confining lower boundary or aquitard to the entire regional flow system.

The upper aquifer is unconfined with a water table at an approximate elevation of 1,770 feet (MSL), 90 feet below ground

surface in the area of the landfill. The thickness of the upper aquifer varies from about 8 to 15 feet along its north-south trending centerline, decreasing as it extends toward the western bluffs and eastern hills. Ground water flows predominately toward the south with velocities ranging from 4 to 13 feet per day (ft/day). The lower aquifer is generally a confined system, with its potentiometric surface at an approximate elevation of 1,680 feet (MSL), 180 feet below ground surface in the area of the landfill. The thickness of the lower aquifer varies considerably from only a few feet thick east of the landfill, to over 150 feet thick as it approaches the Little Spokane River valley where the aquifer is hydraulically connected with the river. Ground water in this lower sand/gravel aquifer flows predominantly toward the west at velocities ranging from 2 to 12 ft/day. Northeast of the landfill, the upper aquitard is not present and the lower aquifer is closer to the surface, interconnecting with the upper aquifer.

The Colbert Landfill was operated as a sanitary landfill by the Spokane County Utilities Department. It was opened in September 1968 and operations ceased in October 1986. During the five years from 1975 to 1980, a local electronics manufacturing company, Key Tronic Corporation (Key Tronic), used the Colbert Landfill to dispose of spent organic solvents, mainly methylene chloride (MC) and 1,1,1-trichloroethane (TCA), at an average rate of several hundred gallons a month (See Appendix A: ROD, Table 1, for approximate disposal volumes). These wastes were typically brought to the landfill in drums which were

emptied into open trenches to mix with the soil or municipal refuse already in the trench. A nearby military facility, Fairchild Air Force Base, also disposed of various solvent wastes at the site. Hazardous substances detected in the ground water at the site were also disposed of by a number of other parties, including Alumax Irrigation Products, A&M Manufacturing, and United Paint, Inc. A variety of other chemicals (such as pesticides and refinery tar residues) from other sources were also disposed at the site but have not, to date, been detected in the ground water at the site.

In 1980, nearby residents complained to the Eastern Regional Office of the Washington Department of Ecology (Ecology) about disposal practices at the landfill. State and county officials, under the lead of the Spokane County Utilities Department, initiated an investigation into complaints of ground water contamination in the area by sampling nearby private wells. The results of this initial investigation indicated that some of these wells were contaminated with TCA.

Since 1980, additional studies have been directed toward the contamination problem at the Colbert Landfill. The first study (Maddox 1981), initiated in response to citizen complaints, included a review of existing information on the site and some field study, and recommended a ground water monitoring program. Further studies, conducted in 1982 (Maddox 1982), involved monitoring well installation, injection tests, and two rounds of ground water quality sampling and analysis. This study included sampling of selected private and purveyor wells.

In August 1983, the EPA placed the Colbert Landfill site on its National Priorities List (NPL). CH2M Hill was then contracted by EPA to develop a Remedial Action Master Plan (CH2M Hill 1983). This plan presented a scope of work for the eventual Remedial Investigation/Feasibility Study (RI/FS). During this period, the County and Key Tronic continued sampling and analysis of well waters around the landfill (Spokane County and Key Tronic 1986).

Beginning in 1984, bottled water supplies were distributed by the County and Key Tronic to those households with high contamination levels in their wells. Ecology entered into a cooperative agreement with the EPA for conducting a RI/FS at the Colbert Landfill site in August 1984. A "Focused Feasibility Study for Initial Remedial Measures at the Colbert Landfill" (Ecology 1984a) was conducted and a "Community Relations Plan for Remedial Measures at the Colbert Landfill" (Ecology 1984b) was initiated in June 1984. The chosen Initial Remedial Measure (IRM) was to supply water to the affected area by constructing a pressurized water system through the Colbert Extension (System 9) of the Whitworth Water District No. 2. Hook-up of affected residents to this system was subsidized by two of the PRPs (the County and Key Tronic), contingent on three conditions:

- o Well water contamination of more than 200 micrograms per liter TCA;
- o Proximity (less than 500 feet) to water supply mains; and
- o Execution of a hold-harmless agreement.

other residents not meeting these conditions have also elected to receive this water at their own expense.

Ecology contracted Golder Associates, Inc. (Golder) to conduct a data review of the Colbert Landfill site. A recommendation report was submitted in December 1984 (Golder Associates, Inc. 1984), and a work plan for the Remedial Investigation (RI) was submitted in January 1985. Authorization to conduct the RI was received in March 1985. A draft RI report was released for public review in May 1986 and the final RI report was completed in May 1987 (Golder Associates, Inc. 1987).

The primary contaminants detected in the ground water at the Colbert Landfill site during the RI were six volatile organic chemicals, all chlorinated aliphatic hydrocarbons (Golder Associates, Inc. 1987). These contaminants are listed in Table 1. Several other contaminants were also detected in the RI samples, but occurred at lower concentrations or were less widely distributed (see Table 1). Because they behaved similarly to the primary contaminants, they were not considered separately for remediation. Although the contaminants placed into the landfill traversed a considerable thickness of unsaturated soil to reach the ground water, only trace concentrations of these chemicals were found in soil samples obtained from the landfill during the RI drilling program.

In April 1986, Ecology authorized Golder to prepare a feasibility study (FS) based upon the RI. The FS was performed by Golder and a subcontractor, Envirosphere Company, with input from Hall and Associates. The FS Final Report was submitted for public comment in May 1987 (Golder and Envirosphere 1987).

TABLE 1

ORGANIC CONTAMINANTS FOUND IN COLBERT LANDFILL
SITE GROUND WATER DURING REMEDIAL INVESTIGATION

Contaminant	Number of Wells	Maximum Concentration (ug/l) *
<u>Major Contaminants</u>		
1,1,1-Trichloroethane (TCA)	20	5,600
1,1-Dichloroethylene (DCE)	19	190
1,1-Dichloroethane (DCA)	19	600
Trichloroethylene (TCE)	11	230
Tetrachloroethylene (PCE)	9	23
Methylene Chloride (MC) (also called Dichloromethane)	11	2,500
<u>Lesser Contaminants</u>		
Acetone (also called Propanone)	3	445
Chloroform (also called Trichloro- methane)	11	6
Methyl Ethyl Ketone (also called 2-Butanone)	2	14
1,2-Dichloroethane (also called Ethylene Dichloride)	2	5
1,2-trans-Dichloroethylene	5	12
Toluene (also called Methyl Benzene)	2	<1

* In this report, all organic contaminant concentrations will be presented in units of micrograms (ug) of chemical per liter (l) of water. This conventional unit of measurement is essentially equivalent to parts per billion (ppb).

Prior to design and construction of the final remedial action, additional site characterization will be required (termed Phase I in the Draft Consent Decree Scope of Work [Landau Associates, Inc. 1988]). Consequently, it will not be possible to describe in detail some aspects of the remedial action requested in the preauthorization guidance document (EPA 1988). However, the Draft Consent Decree Scope of Work (Scope of Work) provides a detailed framework for the remedial action and documents the review and approval authority of the EPA for aspects of remedial action not addressed within the RI/FS or the ROD. The ROD and the Scope of Work are included as Appendices A and C, respectively. Due to its size, a copy of the RI/FS is not included.

The County intends to implement the remedial action utilizing a design consultant and a contractor for design and construction, respectively; but will provide project management services internally. As will be described in greater detail in subsequent sections of this text, the design consultant and the contractor will be chosen using (separate) selection processes that provide maximum open and free competition; and that insure the selected party has the capability, knowledge, and understanding to fulfill their respective roles in completing the remedial action.

One of the primary functions of the County is to provide services, such as roadways and sewers. As such, the County has demonstrated the ability on numerous occasions to manage large construction projects, including some projects costing more than that estimated for the Colbert Landfill remediation. However, since these projects have not been related to contamination

remediation, the selected design consultant will be required to have a demonstrated knowledge and understanding of CERCLA, and will be expected to facilitate remedial activities in accordance with CERCLA requirements.

CONSENT DECREE AND NATURE OF SETTLEMENT

An EPA PRP study resulted in notice letters being sent to 12 parties. Four of these parties were ultimately identified as PRPs. These include: the County, Key Tronic, the United States Department of Defense (the Air Force), and Alumax. A consent decree has been agreed to in principle between the Governments (EPA and Ecology), the County, and Key Tronic in July 1988. The Air Force has also settled with the Governments, the terms of which are embodied within a separate Consent Decree. Alumax has not agreed to execute the Consent Decree.

Key Tronic and the County have proposed a settlement in which the County will perform the remedy selected by EPA, as specified in the Scope of Work, and Key Tronic will pay the amount of \$4,200,000 into a trust fund for remediation of the Colbert Landfill site (Trust Fund). Key Tronic's payments will be made under the schedule contained in Section VIII of the Consent Decree. The Air Force has agreed to pay \$1,450,000 toward the remedial action. The County will contribute the remainder of the monies required to accomplish the remedial action (including EPA mixed funding, and State mixed funding and grants specified within the scope of work).

EPA has indicated an intent to cost-recover against non-settling PRPs if they (the PRPs) do not ultimately execute the Draft Colbert Landfill Consent Decree (Consent Decree).

Ecology has agreed to assist the County by contributing \$660,000, which includes previously incurred Ecology expenses and claims against the Washington State Toxics Control Account under Chapter 70.105B (Washington Administrative Code). The County will also be eligible to apply for and may receive an unspecified amount of future State grant monies and State mixed funding.

The Consent Decree specifies that the remedy will be implemented by the County.

In accordance with the Consent Decree, the County seeks reimbursement for \$1,400,000 from the Fund. The various funding sources for remediation of the Colbert Landfill site are presented in Table 2.

TABLE 2
FUNDING SOURCES FOR REMEDIATION
OF THE COLBERT LANDFILL SITE

Source	Amount
=====	=====
Key Tronic	\$4,200,000
U.S. Air Force	1,450,000
State of Washington	660,000
E.P.A.	1,400,000
Spokane County	6,290,000*

* Based on an estimated total remediation cost of \$14,000,000

The consent decree (attached hereto as Appendix B) will be lodged with the United States District Court, District of Eastern

Washington. After the Consent Decree has been approved and entered by the Court, the County will be obligated to carry out its terms and to implement the remedy selected by EPA in its Record of Decision (ROD; EPA 1987) and specified in the Scope of Work. Moreover, the County fully intends to undertake and complete the clean-up of this site in a timely manner.

REMEDY

Background

Spokane County proposes to implement a performance-based pump, treat, and discharge approach for remediation of contaminated ground water emanating from the Colbert Landfill site. This is the remedy selected by the EPA in the ROD and specified in the Scope of Work. As discussed in the ROD, a number of treatment options are acceptable, provided the selected option meets an EPA approved performance criteria, as specified in the Scope of Work. Spokane County is proposing to implement the EPA-selected option, using air stripping for treatment. The pump and treat remedy is designed to:

- o prevent further spread of contaminated ground water (in the south and west) in two aquifers by installing and operating interception wells;
- o remove contaminated materials (in the east) which have entered the aquifers and are contributing to the contamination plume, by installing and operating extraction wells in the area where the plumes originate;

- o reduce the toxicity, mobility, and volume of the contaminants by treating all extracted ground water from both interception and extraction wells; and
- o provide an alternate water supply system to any residents deprived of their domestic supply due to demonstrated contamination from the landfill or due to the action of the extraction or interception systems.

The selected remedy is based on the RI/FS, which examined several remedial options including:

- o no action;
- o alternate water supply;
- o point of entry treatment; and
- o ground water extraction, treatment, and discharge (using various technologies for each), plus an expanded water system.

Each of these alternatives was considered separately in three geographic portions of the site:

- o the south area, where a contaminant plume is advancing to the south in the upper aquifer;
- o the west area, where a contaminant plume in the lower aquifer is the major concern; and
- o the east area, where the plumes appear to originate.

About 90 different technologies were screened and evaluated during the feasibility study. As a result of this analysis, 26 remedial alternatives were carried through a detailed evaluation using the EPA's 1985 RI/FS factors (EPA 1985): 12 for the south area, and 7 each for the west and east areas.

Selected Remedy

The remedy selected by the EPA in the ROD, as specified in the Scope of Work, includes the following components:

- o in the south area, a series of extraction wells will be installed at the southern (downgradient) edge of the contaminant plume to intercept the contaminant plume in the upper aquifer;
- o in the west area, a series of extraction wells will be installed to minimize future westward migration of contamination in the lower aquifer; and
- o in the east area, where the plume originates, extraction wells will be installed for contaminant source control in the lower aquifer.

Contaminated ground water will be extracted using deep wells. All three systems will be designed to treat extracted water to the Scope of Work specified performance standards employing air stripping as the method of treatment. Options for disposal of treated water include discharge to the Little Spokane River (all systems), subsurface recharge (south and east systems), and discharge to Deep Creek (south system). Each of the extraction systems will include a comprehensive ground water monitoring program designed to evaluate system effectiveness. The extraction, treatment, discharge, and monitoring programs are described in detail in the Scope of Work. Additional related remedial action components, also specified in the Scope of Work, include:

- o closure of the Colbert Landfill;
- o comprehensive ground water supply well monitoring program and alternate water supply plan; and
- o institutional controls on the future use of ground water in the area.

The remedial action will be implemented in phases. Phase I is designed to better characterize contaminant distribution and site geohydrology. Following completion of the Phase I investigation, design of the (Phase II) remedial action will be accomplished. The ROD provides for a performance-based design, allowing flexibility in the remedial approach. Specific performance criteria were presented in the ROD (Table 1 Performance Standards) and have been further refined in the Scope of Work (Tables IV-1 and V-1). The Scope of Work specifies the bases for design, the design criteria, and criteria for adjustment and modification of the remedial action if the design criteria are exceeded during operation. Thus, the Scope of Work specifies the bases for remedial action design.

Applicable and Relevant Standards

The EPA has evaluated the pump, treat, and discharge remedial approach and determined that it adequately protects human health and the environment and complies with applicable or relevant and appropriate public health or environmental requirements (ARARs). As specified in the ROD, the laws and regulations of concern include:

- o Resource Conservation and Recovery Act (RCRA, 42 USC 6901); RCRA regulations (40 CFR 261 to 280); Washington State

Dangerous Waste Regulations (WAC 173-303); Minimum Functional Standards for Solid Waste Handling (WAC 173-304).

The selected remedy prevents further spread of ground water contamination and constitutes a Corrective Action program as specified in 40 CFR 264.100 and WAC 173-303-645(11). Closure of Colbert Landfill to State Minimum Functional Standards will be evaluated to ensure consistency with RCRA landfill closure standards.

- o Safe Drinking Water Act (SDWA, 42 USC 300); Primary Drinking Water Standards (40 CFR 141).

The selected remedy prevents exposing the public to drinking water which exceeds the Maximum Concentrations Levels.

- o Clean Water Act (CWA, 33 USC 1251); National Pollution Discharge Elimination System (NPDES, 40 CFR 122); NPDES Permit Program (WAC 173-220).

The selected remedy treats the extracted water before discharge to surface water. Other, mainly procedural, aspects of the NPDES Permit system will be met during the design phase. Although not actually required, it is the intent of Ecology to issue a permit.

- o Rules and Regulations of the State Board of Health Regarding Public Water Systems (WAC 248-54).

Enhancements to the alternate water supply system, in order to supply all residences that may require these supplies, as

specified in the Scope of Work will be in conformance with these regulations.

Since the remedial action will implement a ROD selected remedy and a public comment period was required as part of the ROD process, the requirement for adequate notice and opportunity for public comment on the proposed remedy has been fulfilled.

DEVELOPMENT OF THE DESIGN PACKAGE

Consultant Selection

A consultant will be responsible for developing the remedial action pilot study and design for the project. Selection of the consultant will be based on the demonstrated competence and qualifications of prospective consultants to perform the required services at a fair and reasonable price. The process of consultant selection was initiated on February 8, 1988, when Spokane County advertised a Request for Professional Qualifications (RFQ). In response, nine firms submitted a Statement of Professional Qualifications (SOQ). The SOQ's were evaluated and a short-list of the five best qualified firms was identified based on the following criteria:

- o History of firm
- o Project considerations
- o Past experience on similar projects
- o Expertise of project team
- o Project management approach and philosophy
- o Community relations experience

The next step in the selection process will be to issue a Request for Proposal (RFP) to the short-listed firms, which will be accomplished following lodging of the Consent Decree. The criteria for final selection of the design consultant are still under development. However, appropriate criteria will be selected to ensure that the retained firm has the capability, knowledge, and understanding of the project required to successfully fulfill their obligations as design consultant.

A copy of the ROD, Draft Consent Decree, and Scope of Work will be provided to each short-listed firm for use during proposal preparation. Proposals will be evaluated and the most qualified firms will be ranked in order of qualification. This process typically requires 60 to 90 days. As a "Local Agency", the County must meet Washington State Regulations for Contracts for Architectural and Engineering Services, as set forth in the Revised Code of Washington (RCW 39.80). A copy of these regulations is included in Appendix D. The consultant selection criteria will also meet federal procurement guidelines (40 CFR Part 33), in particular Section 33.525 (optional selection procedure for negotiation and award of subagreements for architectural and engineering services). Upon selection of the most highly qualified firm, the County will attempt to negotiate a design contract with that firm. If the County is unable to negotiate a fair and reasonable price with the most highly qualified firm, it will begin negotiations with the next qualified firm. Once a contract is negotiated and executed, implementation of the Scope of Work will begin.

Design Elements

Phase I, which is intended to better characterize contaminant distribution and site geohydrology for the Phase II interception system design, will be developed on the RI/FS and the ROD, as specified in the Scope of Work. Components of the Phase I design, as specified in the Scope of Work, for each project area include:

- o South System: Installation of a pilot ground water extraction and treatment system; installation of a ground water monitoring system to identify the location of the contaminant plume and assess the performance of the pilot system; assessment of treated water discharge management options; and definition of the Phase II - South ground water interception and treatment system;
- o West System: Installation of a pilot ground water extraction and treatment system; installation of a ground water monitoring system to identify vertical and horizontal hydraulic gradients, determine the current location and distribution of the contaminant plume, and assess the performance of the pilot extraction system; assessment of treated water discharge management options; and definition of a Phase II - West ground water interception and treatment system; and
- o East System: Installation of two pilot ground water extraction wells and a common treatment system; installation of a ground water monitoring system to improve definition of the location of the contaminant plume and assess the performance

of the pilot systems; assessment of treated water discharge management options; and definition of the Phase II - East ground water extraction and treatment system.

As specified in the Scope of Work, all work accomplished during Phase I will be performed in accordance with work plans subject to the review and approval of the EPA. The following Phase I work plans will be provided:

- o Health and Safety Plan;
- o Quality Assurance Project Plan;
- o Phase I Pilot Well Plan;
- o Phase I Ground Water Monitoring Plan; and
- o Phase I Treatment and Discharge Plan.

Phase I progress reports will be submitted for EPA review, either monthly or at the completion of major project milestones. The activities accomplished during Phase I, conclusions resulting from these Phase I activities, and an assessment of the impact of these conclusions on the selected remedial action will be presented for EPA review in the Phase I Engineering Report.

Following completion of the Phase I investigation, design of the remedial action (Phase II) will be accomplished. In the Phase II design, the consultant will develop the final design for the extraction, treatment, discharge, and monitoring systems for the south, west, and east project areas.

Preliminary remedial action design will be accomplished as part of the Phase II work plan preparation for the various remedial action components. Phase II Work Plans will include:

- o Phase II Extraction Well Plan;
- o Phase II Ground Water Monitoring Plan; and
- o Phase II Treatment and Discharge Plan.

peripherally related work plans that may be submitted at the same time as the Phase II work plans include:

- o Landfill Closure Plan;
- o Alternative Water Supply Plan; and
- o Plan for Institutional Controls.

The County understands that some work plan components may require more EPA review than others if significant design modifications are to be avoided. Consequently, some key components will be submitted for EPA review early on in the design process. Following Government review of the work plans, Phase II Plans and Specifications will be prepared and submitted for Government review at the 30, 60, and 90 percent completion stages to complete the remedial action design package.

Schedule

Spokane County intends to accomplish the design and construction of the remedial action in a timely manner. As specified in Section XI of the Scope of Work, a schedule for submission of detailed work plans and additional documents will be submitted within two months from entry of the Consent Decree. The schedule will identify specifically when the Phase I work plans, Health and Safety Plan, Quality Assurance Project Plan, Phase I Engineering Report, and Phase I progress reports will be delivered. It will also describe the bases for establishing a

schedule for the Landfill Closure Plan, Alternative Water Supply Plan, Plan for Institutional Controls, and Phase II Progress Reports. The EPA will be kept informed of project activities through the submittal of progress reports and, if necessary, through project meetings with appropriate County representatives.

A final schedule cannot be developed until certain legal aspects (such as entry of the Consent Decree) are completed and additional (Phase I) data are collected and analyzed. However, a preliminary (non-binding) schedule of major milestone events has been prepared for this document and is presented in the Cost Data section of this document in Table 3.

Sufficient data are not available to accurately estimate the length of time to complete the remedial action. Best estimates to date indicate that it could take thirty years or longer to meet the presently established performance criteria.

CONSTRUCTION OF THE REMEDY

The construction of the remedy (Phase II) will consist of three interrelated, and possibly overlapping, ground water extraction, treatment, and discharge systems (south, west, and east). The ground water extraction systems will each consist of several deep wells, serviced by submersible or turbine pumps and connected to the treatment system(s) by a tight-line header assembly. The treatment system(s) will consist of one or more air stripping units set on a concrete slab foundation, with appropriate utility connections for electricity and (possibly) natural gas. The need for stripping tower air abatement will be

assessed as specified in Section V.D of the Scope of Work. Treatment system effluent will be conveyed to the discharge point(s) by pipeline, with appropriate outfall structure(s) constructed to minimize erosion and promote dispersion. To the extent practicable, system components (wells, header assemblies, discharge lines, etc.) will be located below ground to minimize damage from freezing and vandalism, and to mitigate the impact of the remedial action on the local landscape.

These components will be constructed based on the Phase II Plans and Specifications (see Section XI of the Scope of Work), which will be developed from the data generated during the Phase I investigation and pilot studies. Although some of the remedial components (such as the treatment system(s)) could be designed based on available information, the use of Phase I site characterization data and observations of pilot system performance should provide a more efficient, cost-effective design.

A construction quality assurance/quality control (QA/QC) plan will be developed by the design consultant and submitted before construction begins. Methods to assure material quality and proper construction techniques will be developed and incorporated into the construction QA/QC plan. The design consultant will provide construction management, construction inspection, design support, and shop drawing review services during construction. This will ensure adherence to the QA/QC plan. Appropriate performance bonds, as specified in the final bid documents, will be required.

The County intends to use contracting practices that will provide maximum open and free competition and that will not unduly restrict or eliminate competition. Contractor selection for construction of the (Phase II) remedial action will be accomplished in accordance with statutory procedures in awarding contracts (RCW 36.32.250), using standard Spokane County procurement procedures (these statutory requirements are presented in Appendix D). Contractor selection will also be conducted in accordance with federal procurement guidelines (40 CFR, part 33). The invitation for bids will include the selection criteria and will be advertised in the legally-designated newspaper for Spokane County, a locally-circulated newspaper, and a regionally-circulated newspaper. Contractor scope of work and recommended alternatives will be reviewed by the County's design consultant. Contractor bids will be reviewed and verified, and the construction awarded to the lowest responsive responsible bidder. Following completion of all the required legal documents and public notice, a contract will be signed between the County and the Contractor, and construction of the remedial action (Phase II) can be initiated. It is presently anticipated that the contract will be based on a fixed price rather than cost reimbursement.

Construction of the remedial action will be accomplished based on Phase II Work Plans and Phase II Plans and Specifications. A Phase II construction schedule will be developed in conjunction with the schedule for submittal of Phase II deliverables discussed in Section XI of the Scope of Work.

Phase II progress reports will be submitted to EPA for review. These progress reports will be submitted either periodically or at the completion of major Phase II construction milestones.

Following completion of construction, a Phase II Construction Documentation Report will be submitted to the EPA. This report will document Phase II construction activities, including any significant variations from, or modifications to, the Phase II Plans and Specifications or Work Plans.

Phase II construction oversight will be accomplished by the County's design consultant and/or other County representatives. To provide verification of compliance with Phase II Plans and Specifications, oversight will include field monitoring of construction and review of contractor-selected materials and construction methods. A construction manager will be designated by the County to be a focus for oversight activities and to ensure that the intent of the Phase II Plans and Specifications are being followed and the construction schedule is being achieved.

MANAGEMENT AND OPERATION OF THE PROJECT

During remediation, numerous activities involving various different kinds of skilled personnel will be undertaken at the same time. As a result of the complexity of this project, complete and effective project management is essential for proper execution. Thus, a well-defined management structure, as described below, will be established at the beginning of the project.

Project management for the Colbert Landfill remediation will be administered by the County, although many of the technically related management tasks will be accomplished by the design consultant. The County has managed a number of large projects, including a \$120,000,000 waste to energy incinerator (presently under design) and \$40,000,000 of sewer line construction projects. Thus, the County has a demonstrated knowledge and capability to manage projects of this size.

Spokane County will designate a County employee as Project Coordinator. The Project Coordinator will have overall responsibility for project supervision throughout remediation. The Project Coordinator will be a professional engineer with qualifications necessary for satisfactory performance of the job, including experience in managing large construction projects.

The Project Coordinator's responsibilities will include assessment of overall project progress and coordination; interaction with the EPA project manager, other federal and state regulatory agencies, other interested parties, and local citizen groups on behalf of the County; and the undertaking of any community relation activities that the County agrees to perform at the request of the United States and the State of Washington. The Project Coordinator will be responsible for budget review and direct coordination with the design consultant.

The Project Coordinator will also oversee the activity of several entities responsible for the individual segments of the remedial program, although it is anticipated that a single design consultant firm will be retained to provide management and engineering expertise for the following tasks:

- o Phase I Investigation and Pilot Studies;
- o Preparation of Work Plans and other Deliverables (see Scope of Work, Section XI); and
- o Consulting/Design Services
 - design of extraction, treatment, and discharge systems,
 - monitoring evaluation,
 - construction oversight,
 - facilities start-up,
 - facilities operations and maintenance plans.

A single point of contact will be established within the design consultant firm to facilitate communications with the Project Coordinator. Individual Task Managers will be assigned to handle internal communications and provide technical oversight and quality control.

Contractors will be retained to implement Phase II of the Remedial Action. It may also be necessary to retain contractors for construction of some of the Phase I components and to provide occasional O&M services for the extraction, treatment, and discharge system. However, the County plans on using their own personnel to operate the facilities based on the facilities operations and maintenance plans to be developed by the design consultant.

Because this project is anticipated to generate a large volume of data, a computerized data management system will be established to effectively store and retrieve the necessary information. Data will be provided from all onsite task func-

tions to this system, and the system will be available for all tasks.

The management system will provide cost-effective project direction by minimizing the number of decision makers and streamlining communications. It will assure that the Project Coordinator is able to provide adequate project oversight and serve as a focus for remedial activities, while allowing the design consultant to implement the remedial action in a timely and cost-effective manner.

EPA oversight is to be provided by the designated EPA project manager. The EPA project manager will be kept informed of relevant site activities by the County, or their designated representative. The EPA project manager can use this information to determine the appropriate level of EPA oversight required for various site activities.

COST DATA

Because it is ultimately responsible for between 30 to 50 percent of the total estimated costs, Spokane County has a strong incentive to conduct the remedy at this site in a cost-effective and efficient manner. Thus, the County intends to monitor closely the progress of remediation and the costs incurred.

A total project cost of about \$9.4 million (present worth) was estimated in the FS. However, the County and the EPA consider a cost for remedial action of about \$14 million more reasonable than the \$9.4 million estimate contained in the FS. This upward adjustment in cost from \$9.4 million to about \$14 million is based on the following:

o	FS estimate	\$9.4 million
o	Past costs	\$1.7 million
o	Phase I	\$2.0 million
o	10% Contingency	\$1.1 million

	Total	\$14.2 million

Table 3 presents the proposed construction sequence and summary cost estimates for the remedial action. Initiation of remedial activities (first year) is assumed to start once the Consent Decree has been entered with the court. The timing of remedial activities presented in this table should be considered preliminary and is intended solely for the purposes of this request for preauthorization. As specified in Section XI of the Scope of Work, a schedule for work plans and other deliverables (which will be based upon a schedule for completion of project tasks) will be submitted within two months of entry of the Consent Decree by the County. However, since this schedule is subject to EPA approval, the EPA has sufficient assurance that the project will be accomplished in a timely manner.

The County's proposed procurement practices were described in the Construction of the Remedy section of this document. These practices will ensure cost-effective choice of general contractors. Proper oversight and management of the project will also ensure efficient remediation.

ASSURANCE OF STATE COOPERATION AND O/M ARRANGEMENTS

The State of Washington will be a party to the Consent Decree in this matter (which includes the Scope of Work). Addi-

TABLE 3

PROPOSED WORK SEQUENCE, INCLUDING COST ESTIMATES:

Description of Work	Cost
1st Year	\$2,000,000
Data review/design Phase I Construction of pilot systems (Phase I) Additional monitoring wells Air monitoring Alternate water supply	
2nd Year	\$1,600,000
Air monitoring Phase I evaluation and report Start Phase II design	
3rd Year	\$5,600,000
Design Phase II Start Phase II construction Begin start-up Additional monitoring wells	
4th Year	\$3,000,000*
Complete Phase II construction Continue start-up and verification Additional monitoring wells Begin operation and maintenance	
5th Year	\$ 200,000
Complete start-up and verification Operation and maintenance Periodic evaluation and reports	
ALL FOLLOWING YEARS (total cost, present worth)	\$2,000,000

* Includes payment for RI/FS.

tionally, the State will assist the County in funding the remedial action through grant monies and State mixed funding. The State of Washington maintains that such participation constitutes agreement as to the appropriateness of the remedy and assurance of State cooperation.

The County plans on providing for long-term operation and maintenance of the site. A remedial action fund is to be established to provide operating capital for the design, construction, operation, and maintenance of the remedial action. Contributions to the fund are to be made by the PRPs on a schedule of annual payments designed to ensure sufficient monies are available when needed. The proposed schedule for payment is provided for in Section VIII, the Obligations of Consenting Parties, within the Consent Decree (Appendix B).

SCHEDULE FOR AND DOCUMENTATION OF CLAIMS AGAINST THE FUND

As a part of developing cost estimates for the remedy at this site, the County and its consultant have analyzed how the costs would be incurred over time. The goal of this analysis was to ensure that the remedial action trust will, at all times, have sufficient funds for the work to proceed without interruption. Accordingly, the PRPs (the County and Key Tronic) have proposed a schedule of payments in accordance with the Consent Decree. In addition, the County proposes that reimbursement from the Fund be scheduled. The schedule for reimbursement calls for payments from the Fund at those points during the work at which several Tasks will have been completed and at completion of

system start-up. The schedule is set out in more detail in Table 4.

Although the present cost estimate of \$14 million represents the best estimate based on available data, EPA and the County recognize that costs may increase due to the uncertainties regarding subsurface conditions. Because of these uncertainties, the parties have agreed that if it becomes necessary to modify the scope of the actions that EPA authorizes pursuant to this request, the County may submit a revised application for preauthorization to reflect these modifications. Any such modifications will be structured to reflect an EPA mixed funding contribution totaling 10 percent of the design, construction, and startup costs.

WORKER TRAINING, HEALTH AND SAFETY

As specified in Section XI of the Scope of Work, a Health and Safety Project Work Plan will be developed for this site. This health and safety plan will be developed by the design consultant to protect individuals from the hazards that might be encountered during remedial action activities at the site. It will be developed based on the toxicological properties of the contaminants present at the site, as well as consideration of relevant government regulations and guidances, including "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities" (U.S. Department of Health and Human Services 1985), and EPA's "Standard Operating Safety Guides" (Nov. 1984 FOAG). The Health and Safety Plan, as with the other work plans discussed in Section XI of the Scope of Work, requires the

TABLE 4

SCHEDULE OF EPA PAYMENTS FOR THE
COLBERT LANDFILL REMEDIATION

Payment No.	Amount	Schedule*
1	\$250,000	Completion of Phase I, including submittal of the Phase I Engineering Report (within about 2 years of entry of the Consent Decree)
2	\$670,000	Completion of construction of one or more of the (south, east, or west) Phase II systems (within about 3 years of entry of the Consent Decree)
3	\$480,000	Completion of Startup for the three Phase II systems (within about 4 years of entry of the Consent Decree)

* Specific tasks are more thoroughly described in Table 2 of this document. Payments are to be made following completion of tasks, with documentation by appropriate major milestone reports.

approval of the EPA prior to implementation. Work will not be initiated at the site (Phase I or Phase II) until an EPA-approved health and safety plan has been implemented.

COMMUNITY RELATIONS

The County recognizes that the community should be kept informed during remediation and that community concerns should be considered to the extent practicable. Although the County intends to maintain an active role, Section XXIX of the Consent Decree specifies that the Government Plaintiffs (EPA and Ecology) will be the lead for community relations, while the County will be responsible for helping to coordinate and implement community relations for the site.

The County will (at a minimum) assist in:

- o distribution of fact sheets;
- o coordination of public meetings;
- o provide appropriate County representatives for public meetings and presentations; and
- o supply of appropriate documents and information for information repositories.

The County is ready and willing to implement any part of the Community Relations Plan which EPA and Ecology deem "appropriate." The County will cooperate with and support the Governments' community relations effort, and will provide any information needed. Additionally, the County will undertake other community relations activities on request from the EPA and Ecology.

MONITORING AND DOCUMENTATION

Spokane County recognizes that, pursuant to Section 300.69 of the NCP, documentation must be maintained for all phases of response action at this site. The remedial action has not progressed to the point where a detailed documentation plan has been developed. However, appropriate documentation of remedial activity will be accomplished through the submittal of work plans and other deliverables, as specified in Section XI of the Scope of Work. Specifically, documentation will include:

- o Health and Safety Plan,
- o Quality Assurance Project Plan,
- o Phase I Pilot Well Plan,
- o Phase I Ground Water Monitoring Plan,
- o Phase I Treatment and Discharge Plan,
- o Phase II Extraction Well Plan,
- o Phase II Ground Water Monitoring Plan,
- o Phase II Treatment and Discharge Plan,
- o Landfill Closure Plan,
- o Alternative Water Supply Plan,
- o Plan for Institutional Controls,
- o Phase I Engineering Report,
- o Phase II Plans and Specifications,
- o Phase II Construction Documentation Report; and
- o Phase I and Phase II Progress Reports.

The Quality Assurance Project Plan and the various work plans will provide documentation of procedures and practices, construction methodology, and material requirements to be

followed during accomplishment of all aspects of the remedial action. Phase II Plans and Specifications will document the final remedial design; while the Phase II Construction Documentation Report will document the as-built status of the remedial action following completion of construction.

Progress reports will be issued by the County or their design consultant periodically throughout the remedial action. As specified in the Consent Decree, progress reports will be submitted monthly during periods of construction and quarterly thereafter.

The County will maintain all records -- including sampling and QA/QC reports -- generated as a part of the remedial efforts for a minimum of ten years following termination of the Consent Decree.

CONCLUSIONS

The information presented in this Request for Preauthorization has been prepared to meet the prior notification and prior approval requirements of Section 300.25(d) of the NCP for EPA mixed funding. Due to the present status of the remedial action, some of the informational requests outlined within the EPA Preauthorization Guidance Document (EPA 1988) could not be addressed in detail. However, the attached Scope of Work documents the EPA's review and approval authority for specific aspects of the remedial action for which detailed information is not presently available.

EPA mixed funding is an integral part of the Consent Decree negotiated between the EPA and Spokane County. Final agreement and lodging of the Consent Decree cannot be accomplished until this Request for Preauthorization has been reviewed and approved.

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USEPA. Guidance on Feasibility Studies under CERCLA. EPA Hazardous Waste Engineering Research Laboratory, Office of Research and Development. Cincinnati, Ohio. EPA 540/6-85/003.

USEPA, Record of Decision, Decision Summary and Responsiveness Summary for Interim Final Remedial Action, Colbert Landfill Site, Colbert, Washington. September 1987.

USEPA, Guidance on Requests for Preauthorization by Potentially Responsible Parties, January 24, 1988.

U.S. Department of Health and Human Services, National Institute of Occupational Safety and Health. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities. DHHS (NIOSH) Pub. No. 85-115. October 1985.

Re: Colbert Landfill
Ref: CERCLA 88-004

DECISION DOCUMENT

PREAUTHORIZATION OF A CERCLA §111(a) CLAIM

Colbert Landfill Site - Spokane County, Washington

STATEMENT OF AUTHORITY

Section 111 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. §§ 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) authorizes the reimbursement of response costs incurred in carrying out the National Contingency Plan (NCP). Section 112 of CERCLA directs the President to establish the forms and procedures for filing claims against the Hazardous Substances Superfund (the Superfund or the Fund). Executive Order 12580 delegates to the Environmental Protection Agency (EPA) the responsibility for such claims. Executive Order 12580 delegates to EPA the authority to reach settlements pursuant to section 122(b) of CERCLA. The Director of the Office of Emergency and Remedial Response (OERR) is delegated authority to evaluate and make determinations regarding claims (EPA Delegation 14-9, September 13, 1987 and EPA Redefinition 14-9 "Claims Asserted Against the Fund," May 25, 1988).

BACKGROUND ON THE SITE

On September 29, 1987, Robie G. Russell, EPA Regional Administrator for Region X, signed the Record of Decision (ROD) for the Colbert Landfill site (hereinafter referred to as the "Site") (Attachment 1). The ROD selected an interim final remedial action for the site that addresses management of migration of contamination using a groundwater interception system and attempts source control through extraction in areas of highest contaminant concentrations. The remedy is considered to be interim final because the extraction and interception well system will be in operation for decades before remediation is complete and changes in the selected remedial action may be required during that period. In summary, the remedy provides for an alternative drinking water supply, installation of additional monitoring wells to define the plume(s), preliminary selection of the types of treatment systems for each geographic portion of the site, treatability studies for each treatment method, preliminary and final designs, installation of the wells and construction of the treatment system and discharge structure, operation of the systems, monitoring and testing, and development and implementation of institutional controls.

In May 1987, EPA provided members of the public, including the group of potentially responsible parties ("PRPs"), with an opportunity to comment on the remedial investigation and feasibility study (RI/FS) of the Site and in the selection of the preferred

alternative for cleanup. On January 8, 1988, EPA, pursuant to section 122 of CERCLA, issued special notice letters to three PRPs and notice letters to nine others. In May 1988, EPA and representatives for Spokane County, Key Tronics, Inc., and the U.S. Air Force reached agreement in principle. The agreement provided that two of the PRPs would pay a portion of the cost into a trust fund and that Spokane County would carry out the remedy selected by EPA, and that EPA would reimburse Spokane County for a portion of the costs of implementing the remedy.

On September 12, 1988, Spokane County submitted a formal request for preauthorization as required by section 300.25(d) of the National Contingency Plan (NCP) (40 CFR Part 300).

A consent decree between EPA and Spokane County and Key Tronics is being executed simultaneously with this Decision Document. The Scope of Work, which is appended to the Consent Decree, will be used to implement the remedy selected in the ROD and summarized above.

FINDINGS

Preauthorization (i.e., EPA's prior approval to submit a claim against the Superfund for reasonable and necessary response costs incurred as a result of carrying out the NCP) represents the Agency's commitment that if the response action is conducted in accordance with the preauthorization and costs are reasonable and necessary, reimbursement, subject to any maximum amount of money set forth in the preauthorization decision document, will be had from the Superfund. Preauthorization is a discretionary action by the Agency taken on the basis of certain determinations.

EPA has determined based on its evaluation of relevant documents and Spokane County's request for preauthorization, pursuant to section 300.25(d) of the NCP, that:

- (1) A release or potential release of hazardous substances warranting a response under section 300.68 of the NCP exists at the Colbert Landfill site
- (2) Spokane County has agreed to implement the cost-effective remedy selected by EPA to address the threat posed by the release at the Site;
- (3) Spokane County has demonstrated engineering expertise and a knowledge of the NCP and attendant guidance;
- (4) The activities proposed by Spokane County, when supplemented by the terms and conditions contained herein, are consistent with the NCP; and
- (5) Spokane County has demonstrated evidence of State cooperation.

In summary, while EPA does not accept as fact all of the statements contained in Spokane County's preauthorization request, the preauthorization request demonstrates a knowledge of relevant NCP provisions and EPA guidance for the conduct of a remedial action. The Consent Decree, the terms and conditions of this preauthorization and, in technical matters, the Scope of Work shall govern the conduct of response activities. In the event of any ambiguity or inconsistency between the Request for Preauthorization and this Preauthorization Decision Document with regard to claims against the Fund, the Preauthorization Decision Document and the Consent Decree shall govern. As stated above, in technical matters, the Scope of Work and the Work Plan, when developed by Spokane County and approved by EPA, shall govern the conduct of response activities.

DECISION AND TERMS AND CONDITIONS

I preauthorize Spokane County to submit a claim(s) against the Superfund for an amount not to exceed the lesser of one million four hundred thousand dollars (\$1,400,000), or eleven and one half percent (11.5%) of reasonable and necessary eligible costs, unless such amount is adjusted by EPA pursuant to paragraph 13 below, incurred for remedial design and remedial construction in connection with the remedy set forth in EPA's Record of Decision for the Colbert Landfill site (Exhibit 1 hereto) as specified in the Scope of Work (which is an attachment to the Consent Decree) and the Work Plan when approved by EPA, subject to the terms and conditions set forth below. In the event of any ambiguity or inconsistency between the terms and conditions and the discussion, the terms and conditions shall govern.

- 1) Spokane County, as provide in the Scope of Work attached to the Consent Decree, shall develop and implement a worker health and safety plan which complies with OSHA Safety and Health Standards: Hazardous Waste Operations and Emergency Response (29 CFR Part 1910.120; 51 Federal Register 45654 et seq., December 19, 1986.

Discussion:

Spokane County's request for preauthorization fully addresses plans for worker health and safety. As a term and condition of preauthorization, Spokane County shall develop a worker health and safety plan which will be reviewed by EPA. The health and safety plan when approved by EPA shall satisfy the requirements of OSHA Safety and Health Standards: Hazardous Waste Operations and Emergency Response (29 CFR Part 1910.120, 51 Federal Register 45654 et seq. (December 19, 1986 . Spokane County will implement the plan as approved or subsequently revised.

- 2) Pursuant to Section VII of the Consent Decree, the Scope of Work requires that Spokane County submit plans (i.e., Work Plan) for approval. The Work Plan shall including a plan

for air monitoring during air stripping.

- 3) Spokane County shall develop a remedial design in accordance with the Scope of Work and EPA's Remedial Design and Remedial Action Guidance. The remedial design to be developed by Spokane County as specified in the Scope of Work shall insure that all actions undertaken by Spokane County shall be undertaken in accordance with the requirements of all applicable State and Federal laws and regulations and all "applicable" or "relevant and appropriate" Federal and State environmental requirements as identified pursuant to the ROD and pursuant to § 121 of CERCLA. In accordance with Section XXI of the Consent Decree, all activities undertaken by Spokane County off-site shall in addition comply with all required permits, unless an exemption from the requirements of such permits is granted according to law.
- 4) Modification of remedial design elements or performance requirements contained in the remedial design report shall require approval by the Regional Administrator or his/her designee.
- 5) Spokane County shall provide for long-term site management (i.e., operation and maintenance) of the Site sufficient to ensure continuing protection of human health and the environment. The costs of operation and maintenance are not eligible for reimbursement. The Work Plan when developed and approved will differentiate between operation and maintenance activities and pump and treatment activities.
- 6) Spokane County shall develop and implement for remedial design and remedial action:
 - a) Procedures which provide adequate public notice of solicitations for offers or bids on contracts. Solicitations must include the evaluation methods and the criteria for contractor selection. EPA shall have the right to disapprove the selection of the architect or engineer and the construction firm(s) selected by the County.
 - b) Procedures for procurement transactions which provide maximum open and free competition; do not unduly restrict or eliminate competition; and provide for the award of contracts to the lowest, responsive, responsible bidder, where the selection can be made principally on the basis of price. Spokane County and its contractors shall use free and open competition for supplies, services and construction.
 - c) Contracts for construction which include a Differing Site Conditions clause equivalent to that found at 40 CFR §33.1030(4).

- d) Procedures to settle and satisfactorily resolve, in accordance with sound business judgment and good administrative practice, all contractual and administrative issues arising out of preauthorized actions. Spokane County shall issue invitations for bids or requests for proposals; select contractors; approve subcontractors; manage contracts in a manner to minimize change orders and contractor claims; resolve protests, claims, and other procurement related disputes; and handle subcontracts to assure that work is performed in accordance with terms, conditions and specifications of contracts.
 - e) A change order management policy and procedure in accordance with EPA's guidance on State Procurement Under Remedial Cooperative Agreements (OSWER Directive 9375.1-11, June 1988).
 - f) Detailed quality assurance/quality control plans for remedial design activities (e.g., sampling, monitoring, etc.) and construction activities (e.g., sampling, operations, etc.).
 - g) A financial management system that consistently applies generally accepted accounting principles and practices and includes an accurate, current and complete accounting of all financial transactions for the project, complete with supporting documents, and a systematic method to resolve audit findings and recommendations.
- 7) EPA shall have the right to disapprove the project manager selected by Spokane County. Spokane County shall submit to EPA a justification to perform project management in-house or contract it out. The justification shall take into account cost, time, and reliability of in-house versus contracted project management.

Discussion:

Spokane County's request for preauthorization did not contain a justification for its proposal to utilize an in-house project manager as requested in EPA's Preauthorization Guidance (Reasonable Cost, page 7).

- 8) Spokane County shall advise EPA prior to the issuance of a solicitation for construction of the remedy using other than a fixed price contract.

Discussion:

Spokane County's request for preauthorization stated that it anticipates that the contract for construction of Phase II will be based on a fixed price rather than cost reimbursement. EPA's Preauthorization Guidance

(Reasonable Cost, page 7) requests an explanation if the applicant proposes to use other than the formal advertising/sealed bidding procurement method which results in a fixed price contract awarded to the lowest responsive, responsible bidder for construction. Therefore, as a term and condition of preauthorization, Spokane County shall notify EPA prior to issuing a solicitation for construction of Phase II using a negotiated procurement.

- 9) Spokane County shall provide EPA and its agents with site access as set forth in Section XXII of the Consent Decree and shall immediately notify the Agency if they are unable to initiate or complete the preauthorized response action.
- 10) In submitting claims to the Superfund, Spokane County shall:
 - a) Document that response activities were preauthorized by EPA;
 - b) Substantiate all claimed costs through a financial management system as described in paragraph 6(g); and
 - c) Document that all claimed costs were eligible for reimbursement pursuant to this preauthorization and are reasonable and necessary in accordance with the appropriate Federal cost principles.

Discussion:

See paragraph 15 for additional references to the Federal cost principles.

- 11) Spokane County shall maintain all cost documentation and any records relating to its claim for a period of not less than six years from the date on which the final claim has been submitted to the Superfund, and shall provide EPA with access to their records. At the end of the six-year period, Spokane County shall notify EPA of the location of all records. Spokane County shall allow EPA the opportunity to take possession of the records before they are destroyed; this requirement is in addition to the record retention requirement located at Section XIII of the Consent Decree.
- 12) Claims may be submitted against the Superfund only while the Spokane County is in compliance with the terms of the Consent Decree and no more frequently than intervals of:
 - (a) completion of Phase II Design (approximately 3 years);
 - (b) completion of Construction (approximately 4 years); and
 - (c) completion of Startup and Verification (approximately 5 years);

- 13) If the Spokane County finds it necessary to seek to modify the actions that EPA preauthorized, Spokane County may submit to EPA a revised application for preauthorization. In addition, Spokane County may submit a revised application for preauthorization upon EPA's determination of the requirements for final closure of the Site. EPA will consider such an application for preauthorization in a timely manner and will subject to the availability of appropriated funds amend the maximum dollar amount for which Spokane County may submit claims to the Fund. The maximum amount for which Spokane County may submit claims will be determined according to the criteria used in approving the County's application for preauthorization and shall equal 11.5% of reasonable and necessary eligible costs to implement the approved remedy.
- 14) Claims shall be submitted to the Director, Office of Emergency and Remedial Response, EPA, Washington, D.C. EPA shall provide the appropriate form(s) for such claims.
- 15) EPA may adjust claims using the facilities and services of private insurance and claims adjusting organizations or Federal personnel. In making a determination whether costs are allowable, the claims adjuster will rely upon the appropriate Federal cost principles (non-profit organizations - OMB Circular A-122; profit making organizations - 48 CFR Subparts 31.1 and 31.2). Where additional costs are incurred due to acts or omissions by the County, payment of the claim will be adjusted accordingly. EPA may require Spokane County to submit any additional information needed to determine whether the actions taken were reasonable and necessary.
- 16) At least 60 days before filing a claim against the Fund for the remedial action, Spokane County shall present in writing all claims to any person known to Spokane County who may be liable under section 107 of CERCLA for response costs incurred in carrying out the Consent Decree. If the first claim was denied by the responsible party or not responded to, and EPA agrees that there is no reason to believe that subsequent claims would be honored by such responsible party, the denial of the first claim, or lack of response, shall be considered denial of every subsequent claim.
- 17) Payment of any claim shall be subject to Spokane County subrogating to the United States its rights as claimant to the extent to which its response costs are compensated from the Superfund. Further, Spokane County shall cooperate with any cost recovery action which may be initiated by the United States. The Spokane County and Spokane County's contractors shall furnish the personnel, services, documents, and materials needed to assist EPA in the collection of evidence to document work performed and costs expended by Spokane County or the

County's contractors at the Site in order to aid in cost recovery efforts. Assistance shall also include providing all requested assistance in the interpretation of evidence and costs and providing requested testimony. All of Spokane County's contracts for implementing the remedy shall include a specific requirement that the contractors agree to provide this cost recovery assistance.

- 18) Eligible costs are those costs incurred, consistent with the NCP, in carrying out the remedial action, subject to the following limitations:
 - a) Costs may be reimbursed only if incurred after the date of this preauthorization;
 - b) Costs may be reimbursed only for design and construction of the remedy at the Site as provided herein. Such costs shall not include any of the oversight costs incurred by EPA or the Department of Ecology for the State of Washington, investigatory costs, or past response costs that were incurred by EPA or the State of Washington prior to the effective date of the Consent Decree.
 - c) Costs incurred for long-term operation and maintenance, as described in paragraph 5, are not eligible for reimbursement from the Superfund.
 - d) Costs incurred for the payment of a person who is listed in the List of Parties Excluded From Federal Procurement or Non-Procurement, established pursuant to Executive Order 12549, May 26, 1988, at the time the contract is awarded shall not be eligible for reimbursement unless Spokane County obtains approval from EPA pursuant to 40 CFR Part 32 prior to incurring the obligation.
 - e) Costs incurred for the payment of contractor claims either through settlement of such claims or an award by a third party may be reimbursed from the Fund to the extent EPA determines that:
 - (i) the contractor claim arose from work within the scope of the contract at issue and the contract was for activities which were preauthorized;
 - (ii) the contractor claim is meritorious;
 - (iii) the contractor claim was not caused by the mismanagement of Spokane County;
 - (iv) the contractor claim was not caused by Spokane County's vicarious liability for the improper actions of others;

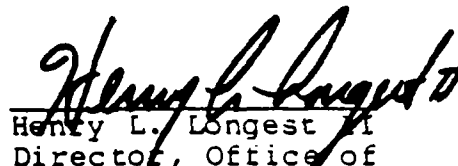
- (v) the claimed amount is reasonable and necessary;
- (vi) the claim for such costs is filed by Spokane County within 5 years of completion of the preauthorized activities; and
- (vii) payment of such a claim will not result in total payments from the Fund in excess of the amount preauthorized.

Discussion:

"Contractor claim" means the disputed portion of a written demand or written assertion by any contractor who has contracted with Spokane County pursuant to the Consent Decree to perform the remedial action, seeking as a matter of right, the payment of money, adjustment, or interpretation of contract terms, or other relief, arising under or related to a contract, which has been finally rejected or not acted upon by Spokane County and which is subsequently settled by Spokane County or an award by a Third Party through the Disputes Clause of the contract document.

- f) An award by a third party on a contractor claim should include:
 - (i) findings of fact;
 - (ii) conclusions of law;
 - (iii) allocation of responsibility for each issue;
 - (iv) basis for the amount of award; and
 - (v) the rationale for the decision.
- g) Interest accrues on amounts due Spokane County pursuant to this agreement where EPA fails to pay the amount within sixty (60) days of EPA's receipt of a completed claim from Spokane County. A completed claim is a demand for a sum certain which includes all documentation required to substantiate the appropriateness of the amounts claimed. Where Spokane County submits a claim which is technically complete but for which EPA requires additional information in order to evaluate the amount claimed, interest will not accrue on the claim until sixty (60) days after EPA's receipt of the requested additional information. The rate of interest paid on a claim is the rate of interest on investments of the Superfund established by subchapter A of chapter 98 of the Internal Revenue Code of 1954.

- h) For a period not to exceed 5 years from completion of startup and verification, costs incurred for restoration of ground water shall be eligible for recovery until EPA determines that the ground water contaminant levels have been reduced to the levels as prescribed in the ROD.
- 19) If any material statement or representation made in the application for preauthorization is false, misleading, misrepresented, or misstated and EPA relied upon such statement in making its decision, the preauthorization by EPA may be withdrawn following written notice to Spokane County. Disputes arising out of EPA's determination to withdraw its preauthorization shall be governed by Section XXVII of the Consent Decree. Criminal and other penalties may apply (see Exhibit 3).
- 20) The Superfund is not hereby obligated to reimburse Spokane County for subsequent remedial actions not covered by this preauthorization caused by failure of the original remedy if those actions are necessary as a result of the failure of Spokane County, their employees or agents, or any third party having a contractual relationship with Spokane County to properly perform activities under the Work Plan and any modification thereto approved by EPA and in conformance with the terms and conditions of this preauthorization decision document. The foregoing shall not apply if the remedy fails for any other reason. EPA may require Spokane County to submit any additional information needed to determine whether the actions taken were in conformance with the Work Plan and were reasonable and necessary.
- 21) This preauthorization shall be effective as of the date of entry of the Consent Decree by the Court.


Henry L. Longest
Director, Office of
Emergency and Remedial Response

9/30/88
Date

EXHIBITS

1. EPA Record of Decision for the Colbert Landfill Site
2. Consent Decree
3. Civil and Criminal Penalties

EXHIBIT 3

CERCLA PENALTY FOR PRESENTING FRAUDULENT CLAIM

Any person who knowingly gives or causes to be given false information as a part of a claim against the Hazardous Substance Superfund may, upon conviction, be fined in accordance with the applicable provisions of title 18 of the United States Code or imprisoned for not more than 3 years (or not more than 5 years in the case of a second or subsequent conviction), or both. (42 USC 9612 (b)(1).)

CIVIL PENALTY FOR PRESENTING FRAUDULENT CLAIM

The claimant is liable to the United States for a civil penalty of \$2,000, and an amount equal to two times the amount of damages sustained by the Government because of the acts of that person, and costs of the civil action. (31 USC 3729 and 3730.)

CRIMINAL PENALTY FOR PRESENTING FRAUDULENT CLAIM OR MAKING FALSE STATEMENTS

The claimant will be charged a maximum fine of not more than \$10,000 or be imprisoned for a maximum of 5 years, or both. (See 62 Stat. 698, 749; 18 USC 287, 1001.)